Pacific Gas and PFS Electric Company

Statistical Report for the Calendar Year Ending December 31, 2010

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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 Mair	n Cathodically Pro	otected	2009: 912.60)	2010: 912.66	

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192.465 - EXTERNAL CORROSION MONITORING

	2009	2010	
Number of Cathodic Protection Areas	131	131	1
Number of Rectifiers	95	95	ľ
Number of Test Stations	365	366	
Isolated Mains & Services - Total	53*	55*	ľ
Isolated Mains & Services - Number Monitored	7*	5*	
Number of Reverse Current Switches			ŀ.
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

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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 3	10		
Total Leaks	4,658	1,195	3,564	672	15	8

MAINTENANCE STATISTICS

	2009	2010
GO 112-E Section 183 Number of Pipe or Bottle Holders	1.2	
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



Statistical Report for the Calendar Year Ending December 31, 2010

192.625 ODORIZATION

NON-ODORIZED LINES:

NONE	Line Number	Length in Miles	Class Location
	NONE		
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	and the second		

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)

The following st 2009 and 2010 (ummary identifies P Gas Maintenance ac	G&E's internal findings and the corrective tivities.	and preventative actions taken in response	to PG&E's review of Sierra Division's	
Торіс	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
		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
Leak Survey Distribution	1,335 Maps	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

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Торіс	# 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.			

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Торіс	# 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.	 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	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 V	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
Valves		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 @ <u>Redact</u>)	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
	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 Resurvevs.			
Corrosion Control	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.	 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.			

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Торіс	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
		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: 12/30/08 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
Leak Repair	98 (2009) 263 (2010)	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

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Торіс	# 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.			

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Торіс	# of Records Reviewed	Finding(s)	Corrective Action To Close Findings	Action to Prevent Recurrence	Actual or Anticipated Completion Date
Patrols	133	 PG&E personnel determined that ground patrol for 1 pipeline was performed 3 days late in Q2-2009. (District 10 DFM) PG&E personnel determined that ground patrols for 6 pipelines were performed late in Q2-2010. (District 10 DFM, Greenleaf I DFM. Ore performed DFM. 	 PG&E personnel patrolled this pipeline. PG&E personnel patrolled these pipelines. 	 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. Sierra Division's T&R Supervisor separated the patrol forms into two separate binders, and created two entries in the FM scheduling testing the second second second second 	1. Corrective: 7/22/09 Preventative: 8/11/09 2. Corrective: 8/24/10 Preventative: 9/1/10
		Feather River DFM, Algodon DFM)		Binder.	
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.			

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Pacific Gas and Electric Company Leak Survey, Repair, Inspect Report INITIAL LEAK DAT. INITIAL CEAH INITIAL CEA	And Gas Quarterly Incident (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2
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PRIORITY 2+ REQUESTED REPAIR DATE (only needed if less than 80 days) Instrument Type: Enter Grade or enter 2+ for Priority Grade 2. Enter Grade or enter 2+ for Priority Grade 2. Enter O (zero) if no leak is M&C determines that the leak is non-hazardous, enter as a Gr "V" and the 2% reason code will be "H". 2% or less reason code is required if leak is graded as 1, 2+, or 2: A-Wall nd traveling, B-Next to, at or under building, C-Odor a E-Audible and/or visible, F-On facility in extremely poor condition, G-At least second customer J-Leak within the scope of work by others, S-Leak is suspected to be MAPPING DA k Location Map Wall Map: D1 5 3 Plat: Inst. TP Line # Inst. TP Line # Leaks On Services: Main Connected to Service Main Connected to Service Cast Iron Fracture Inst. SS Fitting in Plastic System Id Joint SS Fitting in Plastic System Id Joint SS Fitting in Plastic System Id Joint Other Image by Electrical Damage by Electrical Inst. Damage by Electrical	(Repair required within 90 calendar days) le Gas Indicator, or <u>V</u> for Visual. Ind. If a competent first responder from other th 2+. The % Gas will be zero, the instrument will to upgrade or downgrade the leak. ext to public gathering location, D-In foreign structu put. H-Leak is reported as 0% Gas Visual
PRIORITY 2+ REQUESTED REPAIR DATE (only needed if less than 80 days) Instrument Type: Enter H for Hydrogen Flame Ionization, C for Combinenter Grade or enter 2+ for Priority Grade 2. Enter 0 (zero) if no leak is M&C determines that the leak is non-hazardous, enter as a Gr "V" and the 2% reason code will be "H". Use the next line belew 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 a E-Audible and/or visible, F-On facility in extremely poor condition, G-At least second customer J-Leak within the scope of work by others, S-Leak is suspected to be MAPPING DAY k Location Map Wall Map: Inst. TP Line # Inst. TP Line # Inst. TP Line # Inst. S Fitting in Plastic System Intervence: Cast Iron Fracture Inst. S Fitting in Plastic System	(Repair required within 90 calendar days) le Gas Indicator, or ⊻ for Visual. Ind. If a competent first responder from other th 2+. The % Gas will be zero, the instrument will to upgrade or downgrade the leak. ext to public gathering location, D-In foreign structu put. H-Leak is reported as 0% Gas Visual
PRIORITY 2+ REQUESTED REPAIR DATE (only needed if less than 80 days) Instrument Type: Enter H for Hydrogen Flame Ionization, C for Combinenter Grade or enter 2+ for Priority Grade 2. Enter 0 (zero) if no leak is M&C determines that the leak is non-hazardous, enter as a Gr "V" and the 2% reason code will be "H". Use the next line bel 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 a E-Audible and/or visible, F-On facility in extremely poor condition, G-At least second customer J-Leak within the scope of work by others, S-Leak is suspected to be MAPPING DA k Location Map Wall Map: Orded Location Map Wall Map: Inst. TP Line # Inst. TP Line # Main Connected to Service Cast Iron Fracture Inst. SS Fitting in Plastic System Inst. SS Fitting in Plastic System Inst. SS Fitting in Plastic System Induction Defect Damage by Electrical icast Iron Fracture Ing Other Damage by Heavy Ra	(Repair required within 90 calendar days) le Gas Indicator, or <u>V</u> for Visual. Ind. If a competent first responder from other th 2+. The % Gas will be zero, the instrument will to upgrade or downgrade the leak. ext to public gathering location, D-In foreign structu put. H-Leak is reported as 0% Gas Visual
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Instrument Type: Enter <u>H</u> for Hydrogen Flame Ionization, <u>C</u> for Combi Enter Grade or enter 2+ for Priority Grade 2. Enter 0 (zero) if no leak is M&C determines that the leak is non-hazardous, enter as a Gi "V" and the 2% reason code will be "H". Use the next line be 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 a E-Audible and/or visible, F-On facility in extremely poor condition, G-At least second customer J-Leak within the scope of work by others, S–Leak is suspected to be MAPPING DA k Location Map Wall Map: 2 5 3 Plat: 7 8 nally Cathodically Protected Yes No CPA:	Ile Gas Indicator, or <u>V</u> for Visual. Ind. If a competent first responder from other th 2+. The % Gas will be zero, the instrument will to upgrade or downgrade the leak. ext to public gathering location, D-In foreign structuout. H-Leak is reported as 0% Gas Visual
Imappendication Wall Map: 2 5 3 Plat: 8 orded Location Map Wall Map: 2 5 3 Plat: 8 orded Location Map Wall Map: 2 5 3 Plat: 1 8 orded Location Map Wall Map: 2 5 3 Plat: 1 8 orded Location Map Wall Map: 2 5 3 Plat: 1 8 orded Location Map Value No CPA: 1 1 1 Inst. TP Line #	a copper service
orded Location Map Wall Map: 2 3 Plat: 7 8 nally Cathodically Protected Yes No CPA: 1 1 1 Inst. Image: TP Line # Image: Mile Post: 1 1 Leaks On Services: Main Connected to Service Cast Iron 1 1 1 Leaks On Services: Main Connected to Service Cast Iron 1 1 1 Leaks On Services: Main Connected to Service Cast Iron 1 1 1 Leaks On Services: Image: Main Connected to Service Cast Iron 1 1 Leaks On Services: Image: Image: 1 1 1 1 Leaks On Services: Image: Image: 1 1 1 1 1 Ison Image: Image: Image: 1 <td< th=""><th></th></td<>	
Inst. TP Line # Mile Post: Leaks On Services: Main Connected to Service Cast Iro INST. Image: Service in the service	Right for Grade1, 2, & 2+ Downgrades to Gr
Inst TP Line # Mile Post: Leaks On Services: Main Connected to Service Gast Iro # PIPE DATA K SOURCE: LEAK CAUSE: Il Joint GSS Fitting in Plastic System Atmospheric Corrosion ady of Pipe Valve Gast Iron Fracture amp Unknown Construction Defect ip Other Damage by Electrical icapsulation Damage by Heavy Ra	(TP only)
Inst. TP Line # Mile Post: Leaks On Services: Main Connected to Service Cast Iro Image: Construction Construction Corrosion PIPE DATA IK SOURCE: LEAK CAUSE: Ill Joint SS Fitting in Plastic System Atmospheric Corrosion ady of Pipe Valve Cast Iron Fracture amp Unknown Construction Defect icapsulation Damage by Electrical	(All Systems)
Leaks On Services: Main Connected to Service Cast Irc Image: Construction of the service in the service	Original Job # (TP Only)
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I Joint SS Fitting in Plastic System Atmospheric Corrosion Idy of Pipe Valve Cast Iron Fracture amp Unknown Construction Defect ip Other Damage by Electrical icapsulation Damage by Heavy Ra	LINE MATERIAL
ody of Pipe Uvalve Cast Iron Fracture amp Unknown Construction Defect ip Other Damage by Electrical icapsulation Damage by Heavy Ra	☐ Vehicle ☐ Copper
amp Onknown Construction Detect ip Other Damage by Electrical icapsulation Damage by Heavy Ra	Incorrect Operation Steel/Wrought Iron
Incapsulation	ly Previously Damaged Addyl A (Tan or Gray)
upper server server and the server	ood 🔲 Lightning 👘 PE2406 (Yellow or Or
unig Damage by Earth Mov	It Uklander DE2406/2708 (Yellow
rth Weld External Corrosion	☐ Other ☐ PE 3408 (Black)
ingitudinal Weld	and the second se
echanical Joint 🔲 Stress Corrosion Crac	LINE USE: Other Plastic
her Welds Plastic Crack Failure	LINE USE: Other Plastic Distribution Main Cathering
egulator Plastic Embrittlement	LINE USE: Other Plastic Distribution Main Gathering Single Service
ap Connection	LINE USE: Other Plastic Distribution Main Cathering Single Service Branch Service Transmission
Size	LINE USE: Other Plastic

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Repa □ Yes	air Locatic 🔲 No Pij	n@ <u>G</u> e beline En	<u>VC 7E</u> gineer C	<u> モ 70 </u>	<u>2050 MTR</u> Rep	[#] <i>Э.978032</i> air Remarks	<u>LIAKO</u>	2 1124	051170	V POIN	UT ON	TEE
Repaire	d By: Rec	lacted	-	Repair D	ate OR -	17-09	Repair Tim	e 15	15 F	Pipe-to Sc	oil (mV)	T T
REP				hanical Repair	Fitting		J sive > or = 2-inch		leid	(External Corro	sion Only)	
🛛 Be	I Joint Seal	Dan dan dina. Dan dina dina dina dina dina dina dina di	Repl	ace Dist Main	< 100 ft.	Replace P	lastic Tee Cap	D Patch	Weld		Aquawrap	
🗋 Be	I Joint Clamp	i den de la composición de la	Repl	ace Dist Main	> or = 100 ft	☐ Tighten Ca	ap/Bolt	Direc	t Depositio	n Weld	Other	
🗆 ci	Repair Sleeve	3		tivated Entire	Service	Aldvi Electr	ofusion Overcap	□ Weld	ed Sleeve/(Can		
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□ De	activate TP M	ain	□ Reol	ace Entire Ser	vice		w/Anode		Sieeve	valve	an the second	• 13
□ == □ Re	place TP Mai	1	K Repl	ace Partial Se	rvice	D Soap and/	or Tape		2 Clasue			
De De	activate Dist	Aain (1 foot		aca Value c 7.	inch		Over Defect		000000		*S	
or more	e)				to prove			Vellow				
SIZE	INSTALLI	ED:	2	SP RI	EPLACED WIT	H: DE 4710) (Black)			per Entir	rely Replac	ced
Field R	Reviewed B	Redacte	d	Date [8-19	-09	Check] Yes No	Date		-	-
Mappin	ig Reviewed	I BY: Re	acted			Date	20920	260	17 Po:	sting Requ	uired [] Ye	s 1 No
				<u> </u>	SENERAL I	NSPECTIC	N DATA		*			
)ate:	3-17	-09	Inspecte	d by Red	dacted	Line Use: 🗆 Di	stribution Main] Gathering		Service 🗖	Branch Servi	ce
	ERIAL	SOIL TY	PE	For TP	Only	SURFACE (OVER PIPE	F	EET EXP	OSED		Za
Steel/Wro	ought Iron	K Clay		SOIL R	ESIŚT (ohm-cm) 🗌 Concrete		cc	VER ON	PIPE (In	ches)	128
Cast/Duc	tile Iron	Rock		0 - 1	,000	Asphalt			INTE	RNAL LIN		M No
Copper		Sand Sand		1,00	0 - 2,000	Soil (Previo	usly Unsurfaced)	PA	VED WA	LL TO WA	LL 🗌 Yes	No No
Aldyl-A (T PE 2406	Fan or Gray) (Yellow or	Loam		☐ 2,00 ☐ 5,00	0 - 5,000 0 - 10,000			NEAF	(PUBLIC	ASSEMB	LY 🗌 Yes	No No
ange) PF 2406/	2708 (Yellow)		ed Facility	□ >10	000					an a		
DE 3408	(Black)	Co suboo	an i nains									
	(Diach)						1997 - 19					and an
ILC ALIO	(Diaun)		and the second s		ETALLICE				اد میں دورین	Line Size		PP
COATING		Bare/None	Paint Tape	Single	Wrap Soma	stic DT Coated DC	ar)ther		CON	DATING		Fair
CIRCUMF	ERENTIAL DITION (Visu LON	WELD Jal) G SEAM	☐ Accepta ☐ Dimens ⁱ ☐ DSAW	ible Cracke ions not in tole ERW	ed High/Low Ob erance (See Numbe AO Smith Spi	served red Document <u>D-2</u> ral	20 or <u>D-22)</u> SMLS 🔲 LAP	Flash				
107		en en en en	and a second		EXIERI	VAL INSPECT		1 -			niana ing ina	
JSI			_ Heavy	WALL THICK	NESS (Req. for TP,	(inches)		L THICKN	ESS MEAS		JYes ∐No	lan Sarah
HING			_] Heavy	MAX. PIT DE	FIN (Req. for IP) (I	ncnes)	GRA	PHINZED	(CAST IRON) L		
DOGING			_ neavy	MAX. GOUGI	L DEF IN (Req. 10)							
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ICT		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1										
JST				MAX. PI	IT DEPTH (Reg. fo	r TP) (inches)						
JST TTING	None	Light	Heavy	MAX. P	IT DEPTH (Req. fo	r TP) (inches) [IPE COND						
JST TTING INTLINE V	None	Light Light	Heavy	MAX. P	IT DEPTH (Req. fc PLASTIC P	r TP) (inches) [IPE COND						
JST TTING RINTLINE V	None None VISIBLE 1 Y	Light Light I	I Heavy	MAX. PI	IT DEPTH (Req. fo PLASTIC P	r TP) (inches) [[IPE COND MANU		LOC	ATING WI	RE 🔊	Good 🗋 Ba	d 🗌 Non
JST TTING RINTLINE V IPE MANUI	None None VISIBLE DY FACTURER (L Light Light			IT DEPTH (Req. fc PLASTIC P -1 OY1-A DISCOLORING	IT TP) (inches) [IPE COND MANU	JFACTURE DATE	LOC	ATING WI		Good 🗆 Ba T WITH 전 Y	d 🗋 Non
JST TTING INTLINE V PE MANUI DUGING TIMATE G	None None NISIBLE VI FACTURER (X Yes No SOUGE DEPT 10-50% >5		I PIPE)		IT DEPTH (Req. fc PLASTIC P <u>I O Y</u>]-A DISCOLORING E (SEE <u>NUMBERE</u> ptable □ Unaccep	IT TP) (inches) [TIPE COND MANU MANU TO GRAY D DOCUMENT D- Table	ITION		ATING WI Yes II No ING □ Ye	RE K N CONTAC HARD OBJ S No	Good □ Ba TWITH 北 Y ECTS □ N	d 🗌 Non es o
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JST TTING INTLINE V PE MANU DUGING TIMATE G <10% [] 1	None None NiSiBLE 7 FACTURER (A Yes No BOUGE DEPT 10-50% >5 Party				IT DEPTH (Req. fc PLASTIC P DISCOLORING E (SEE <u>NUMBERE</u> plable Dinaccep S QUARTI ddress	IT TP) (inches) [TPE COND MANU MANU TO GRAY D D DOCUMENT D- TABLE ERLY INCI	DITION	LOC :KING ☐ P CRACKI TA I City	CATING WI Yes II No ING □ Ye	RE N N CONTAC HARD OBJ S M NO	Good □ Ba TWITH 전 Y ECTS □ N	d 🔲 Non es o
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JST TTING INTLINE V IPE MANU DUGING ITIMATE G <10% [] 1 Imaging I Imaging I Imaging (□ None □ None VISIBLE □ Y FACTURER (Ø Yes □ No SOUGE DEPT 10-50% □ >5 Party Party Work □)	Light Light Light LOCATED ON UNDER ST H VISUA 0%			IT DEPTH (Req. fc PLASTIC P DISCOLORING E (SEE <u>NUMBERE</u> ptable D Unaccep S QUARTI ddress	IT TP) (inches) [TPE COND MANU MANU COND MANU	DIFACTURE DATE JFACTURE DATE J_ (MM/DD/YY) (es CRAC 21) TEE CA DENT DA	LOC CKING P CRACKI TA City Zip Coc	ATING WI Yes II No ⊡ Ye	RE N N CONTAC HARD OBJ S M No	Good □ Ba TWITH 전 Y ECTS □ N	d 🗌 Non es o
JST TTING INTLINE V IPE MANU DUGING ITIMATE G <10% [] 1 Imaging I Imaging I Imaging I MDLOYEE	□ None □ None VISIBLE □ YI FACTURER (✓ Yes □ No SOUGE DEPT 10-50% □ >5 Party Party Work □) S OTI	Light Light Light LOCATED ON UNDER ST H VISUA 0%			IT DEPTH (Req. fc PLASTIC P DISCOLORING E (SEE <u>NUMBERE</u> ptable Dinaccep S QUARTI ddress # Cust. Interrupted	TP) (inches) [TPE COND MANU MANU D DOCUMENT D- Table ERLY INCI	DFACTURE DATE J(MM/DD/YY) /es CRAC 21) TEE CA DENT DA Cust. Lours		ATING WI Yes II No IYe ING IYe	RE N N CONTAC HARD OBJ S NO S NO		d 🗌 Nor es o

EQUIRED for new or returned to service segments of main and/or service: Image: Construction of the service segments of main and/or service: Image: Construction of the service segments of the service segment service segments of the service segm	(if any fittings are used, the and/or sketch must show lo TYPE OF PLASTIC MATERIAL INSTALLED Manufacturer Name (Polypipe, US Poly, Performance, or KWH) US POLY	en text ocation) MFG. DATE (MM0D0YY)	WELDED BY: Date: WELDING INSPECTED PER PG&E NUMBERED DOCUMENT D-40 BY:Date:
BY <u>BP</u> DATE <u>8-17-09</u> TEST QUALIFIES PIPE FOR - 2009 MMENTS: LEAK @ TRAWSTT	TYPE OF PLASTIC MATERIAL INSTALLED Manufacturer Name (Polypipe, US Poly, Performance, or KWH) US POLY	MFG. DATE (MM/DD/YY)	BY:Date:
MMENTS: LEAK @ TRANSIT	01-07-07	See Numbered Document	INSPECTOR
I ULI MINATE STRESS ©	TON POINT PL TO S TRANSITION	57L 76E	Replace i' pl pipe
A sketch is required for all repairs (or di edacted	irections as to where to find the s	ketch is rec	quired, if it is located on another record).

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	PG&E			
	Employee Tra	nscripts		
Date: 4/26/2011 Selection Criteria			17 - Marson Jack	Page: 1
Corp ID:	Reda Employee Type:		Job Code;	
Employee Name:	<u>en la Org</u>		Course Type:OQ	
PCC:	Date From:	Date From:		
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

Date: 4/26/2011	Employee Transcripts			
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: Redact	
Org: M&C Area 1 GC Gas Constr			PCC: ed	

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				Page 2 of 3
Course Code	Course Name	CONFIDENTIA Course Type	AL - Provided Pursuant to P.U. Status	Code §583 <u>Status Date</u>
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
 Page: 3

 Date: 4/26/2011
 Page: 3

 Selection Criteria:
 Job Code:

 Corp ID:Red
 Employee Type:

 Job Code:
 Job Code:

 Employee Name:
 Org:

 PCC:
 Date From:

Employee Name: Redacted
Org: M&C Area 1 GC Gas Constr

Corp ID: Redac
PCC: Reda

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Santi Santi Santi Santi Santi		CONFIDENTIA	L - Provided Pursuant to P.U	L Code §583
Course Code	Course Name	Course Type	<u>Status</u>	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

5. 2

KG# 138 Day of the Week The	Note:	All work :	activities	such as ba	vel firoc.	in-lieu ma	al time	. lonch tím	Cif different than sh	own at	cove), rest periods, o	rtc. are to be noted as a fir	ne item t
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CONFIDENTIAL - Provided Pursuant to P.U. Code §583

Date 11-24-04	any col and th	any missed meal periods during this pay period on this timecard, and that absent such recording I / we did receive a meal period (s). Headqu:						Headquarters_	Headquarters - Aubiera_				
KG# 138 Day of the Week	 Note: All work activities such as travel time, in-lieu meal time, lunch time 						, lunch tìme	of different than shown above), rest periods, etc. are to be noted as a line item be					
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2-Man Crew Y/N Hours______ Job Site Y/N Worked Through Lunch (V)N Worked Through Lunch Approved By_______ Supervisor Name (print) ______ Redacted ______ Date _____ Date _____ Revised July 3, 2009

Electric C	ns anu Leak Su Simbany	irvey, Repair, Inspection, a Report (Form	nd Gas Quarterly In	CIGENI Gas T&D Utility Standard
12rai -		NUTIAL LEAK DATA	10416246	9
Year	Series SF			onth Day Year
Leak Number 09	- 9 3 6 8 0 7	USA Ticket# 367	575 Valid Date	1-24-09
Date Reported	- 24 - 09 TH	me Reported JO <u>5</u> 0 (24 hr T	īme) PCC Number	12055
Response	- Z 4 0 9 Respo	nse Time / 6 0 0 (24 hr	Time) Paved Wall-To- Wall Wall	s 🔲 No 🕑
Moratorium Expire Date	- SAP Re Order #	check	SAP Repair Order # L	1231970
Address: Redacted		City:	ocklin	
Description of Readi	ng Location: <u>4% in long</u>	hole App. 12 PT From	Home over SRVK.	Line.
REPORTED BY:	Call-In I Mobile Surve	ey SURFACE OVER	LEAK: Concrete	Unsurfaced
Re	eda 12/8/09 2% or Down			
READING	iS Less ^c Via or Via Suspect Vent Copper (Yes) (S) No)	DATE	Time (24 hr Time) OPERATOR LAN ID	SERIAL NUMBER (Last 4 Digits)
42	CZ NO	11-24-09	1050 Redacted	4053 No sossible
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		n <mark>- Antina Antina - </mark>		to pue hole
PRIORITY 2+ RE	QUESTED REPAIR DATE (Only n	needed if less than 90 days)	(Repair required w	thin 90 calendar days)
A-Wall to wall E-Audible and F-On facility in	and traveling, B-Next to, at o /or visible, extremely poor condition, G	or under building, C-Odor and next B-At least second customer call out,	to public gathering locatic , H-Leak is reported as 0%	n, D-In foreign structure, o Gas Visual,
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# INJURED: DAMAGE # Cust. # Cust. FIRE □Yes □ No EXPLOSION □ Yes □ No # EMPLOYEES OTHERS S Interrupted Hours TV □ Redio □ Newspaper Name/Channel: # FATAL: EMPLOYEES OTHERS Media □ Yes □ No Media □ Yes □ No Media □ Yes □ No DOT REPORTABLE (Fatality, In-patient Hospitalization, ≥\$50K Property Damage) Yes □ No CPUC REPORTABLE (Major News Media) Yes □ No # Page 2 of 3 * * * *	Phone ()					
# FATAL: EMPLOYEESOTHERS Media 🗌 Yes 🗋 No Media Type 🗌 TV 🗌 Redio 🗋 Newspaper Name/Channel: DOT REPORTABLE (Fatality, In-patient Hospitalization, ≥\$50K Property Damage) 🗋 Yes 🗋 No CPUC REPORTABLE (Major News Media) 🗋 Yes 🗋 No f Page 2 of 3	#INJURED:	DAMAGE #C s Int	ust. errupted	#Cust. Hours	FIRE TYes No EXF	LOSION Ves No
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Page 2 of 3	DOT REPORTABLE (Fatality, In	-patient Hospitalization, ≥\$50K	Property Damage) 🗋 '	Yes 🗌 No CPU	CREPORTABLE (Major News	Media) 🗌 Yes 🗌 No
Page 2 of 3				· · · ·		
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REQUIRED for new or returned to service segments of main and/or service: On-Site Test Pre-Test TESTED ATPSIG FORHour/Minutes TEST In accordance with <u>A-34</u>	(if any fittings are used, the and/or sketch must show lo	en text ocation)	WELDED BY: Date: WELDING INSPECTED PER PG&E NUMBERED DOCUMENT <u>D-40</u>			
BYDATE TEST QUALIFIES PIPE FORPSIG MAOP	TYPE OF PLASTIC MATERIAL INSTALLED Manufacturer Name (Polypipe, US Poly, Performance, or KWH)	MFG. DATE (MMDD/YY) /// See Numbered Document A-93	BY: Date: INSPECTOR			
COMMENTS: SOAPtest Point. DodR	- 1/2" Alyoda P ock puttingtont (press	inched -Sque ueo)	At ppeblaes spherze eze point.			
A sketch is required for all repairs (or c	lirections as to where to find the s	sketch is re	quired, if it is located on another record).			
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Redacted						
Please Note: EMS Markers are to be installed for Deactivate	ed Facilities and where plastic is found witho	out wire. All Ei	MS markers shall be clearly dimensioned.			

Pacific Gas and Electric Company Leak Repair, Inspection, and Gas Quarterly In (A-Form) Form Type Leak Inspection Only or Non-Leak Damage Dates Compliance Due Date Assigned to Constru- Assigned to M&C Coordinator Assigned to Constru- Leak Number Use Yes Bate INITIAL DATA Use A Taket # INITIAL DATA Intervention Use A Taket # Intervention Intervention OB Ison Of Reading Location: SAP Repair Order # 4(1) Intervention Reported By: Call-Intervention Intervention Operator Yeas Sa Ison Of Reading Location: Intervention Operator Intervention Yeas Sa Ison Of Readings Into Interventin Taket Intervention Inter	cident Report	62-4060 (Rev 03/11) TD-4110P-11-F01
Type Leak Inspection Only or Non-Leak Damage Dates Dompliance Due Date Assigned to Construct Segmed to M&C Coordinator INITIAL DATA Assigned to Construct Isat reket # INITIAL DATA Location: A = Above Groun IsA Ticket # Image: Initiation of the state	an sana an	La companya da
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Reported By: Call-In Foot Survey Other Employee Surface At Read Location: Asphalt Readings Gas Instr Grade (a) Info Code (b) Date Time (24 hr Time) Operator LAN ID Readings (a) Info (b) - - - - - Image: Code (b) - - - - - - - Image: Code (b) - <t< td=""><td>n an tha an third and the second s</td><td></td></t<>	n an tha an third and the second s	
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Gas Instr Grade (a) Code (c) Code (c) <td>Unit Serial</td> <td>Location Remarks</td>	Unit Serial	Location Remarks
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Instrument Type Used to Grade: Enter, <u>C</u> for Combustible Gas Indicator, <u>V</u> for Visual. <u>H</u> for Hydrogen Flame Ioni: (a) Instrument Type Used to Grade: Enter, <u>C</u> for Combustible Gas Indicator, <u>V</u> for Visual. <u>H</u> for Hydrogen Flame Ioni: (b) Enter Grade: (1, 2+, 2, or 3). Enter 0 (zero) if no leak is found. (c) Info code is required if Ieak 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 locatic F-On facility in extremely poor condition, G-At least second customer call out, H-Leak is reported as 0% Gas Visual, J-Leak vis N – Downgrade to Grade 3 is not allowed, S-Leak is suspected to be on a copper service, T – T&R Facility AMAPPING DATA I C 3 Plat: C 3 Federal Land II Yes		
 (a) Instrument Type Used to Grade: Enter, <u>C</u> for Combustible Gas Indicator, <u>V</u> for Visual. <u>H</u> for Hydrogen Flame Ioni: (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 locatic F-On facility in extremely poor condition, G-At least second customer call out, H-Leak is reported as 0% Gas Visual, J-Leak is N – Downgrade to Grade 3 is not allowed, S-Leak is suspected to be on a copper service, T – T&R Facility Aation Map Wall Map: <u>Z</u> <u>4</u> <u>0</u> <u>5</u> Plat: <u>C</u> <u>3</u> Federal Land <u>I</u>Yes [<u>Yes I</u>] 	(Repair required w	ithin 90 calendar days/
cation Map Wall Map: 2 4 0 5 Plat: C 3 Federal Land []Yes	n, D-In foreign structure, I within the scope of work by	E-Audible and/or visible, r others, M – Migration,
cation Map Wall Map: 2405 Plat: C3 Federal Land []Yes		
	ZNO S	YSTEM PRESSURE
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		.10.6" WC) ∐ ƏHP(≤25ps
		≥ovpsigi L1 1 m(>60 psij
ear inst. / G 7 G IP Line # Mile Point:	Origit Origit (TP On	nal Job #
or Leaks On Services: Main Connected to Service 🔲 Cast Iron 🗌 Plastic 🔲 Steel	Main Installation Ye	ear 1963
HIGH CONSEQUENCE AREA		
gh Consequence Area [Yes] No (>= 20% SMYS Only) Date source of leak was determine	d .	

SOURCE ·	Choose One	CALISE: Ch	oose One	LINE MATERIAL:	
SUURCE :		CAUSE: Ch		LINE MATERIAL:	
J Bell Joint (1)	Dises (4)				
Body of Fipe (1)			Display Construction (5)		
1 Dnp (1)					
J Encapsulation (1)			Plastic Emontilement (5)		
J Fusion Joint (1)	LI Longitudinal Weld (5)	Damage by Earth Movement (2)			
J Other Mechanical Joint (1)	U Other Welds (5)	Damage by Heavy Rains/Flood (2)	LI Weld Failure (5)		
Curb Valve (2)	LI Regulator/Pilot (6)	Earthquake (2)	L Equipment Maltunction (6)	PE2406 (Orange)	
J Line Valve (2)	Riser Valve Threads (7)	Lightning (2)	Incorrect Operation (6)	PE2406/2708 (Yellow	
J Clamp (3)	Threads (7)	Other Natural Forces (2)	LI Rodent (7)	PE 3408 (Black)	
Compress Coupling/Fitting	Unknown(Replaced Facility)(7)	Damage by Third Party (3)	LI Root Damage (7)	D PE 4710 (Black)	
Compress. Coupling Steel (3)	□ *Other (7)	Digin/Excavation (3)	Unknown (Replaced facility) (7)	Conter Plastic	
] Compression Coupling Stainless Steel (3)	*Other requires explanation. Describe reason for other.	Previously Damaged (3)	Other (7) Inspection Only (7)	C *Other	
T Cilling (2)	Colonation for Column	CT Manufa (2)		Calesadas fai Causas	
1 rationg (3)	Categories for Source:		LINE USE:	Categories for Cause:	
I Plastic Tee Cap (3)	(1)Body of Pipe, (2) Valves,	Damage by Electrical Facility (4)	☐ Distribution Main <= 60 PSIG	(1) Corrosion, (2) Outside Forces	
] Pressure Control Fittings(3)	(3) Fittings, (4) Riser,	Deliberate Acts/Vandalism (4)	Distribution Main > 60 PSIG, not classified as Transmission	(3,4) Damage by others (5) Failures	
] Stab Type Fittings (3)	(5) Welds, (6) Regulation	Fire or Explosion on Company Facility (4)	Gathering	(6) Malfunctions	
] Tap Connection (3)	(7) Olher	Fire or Explosion on	Single Service	(7) other causes	
			D Dennah Caradaa		
		Camprocelan Coupling (5)	Transmission (>=20% SMVS)		
and a second		Et compression coupling (a)			
ine Size	D Line Above Ground	Yes 🖉 No Internal Line	er 🗌 Yes 🕅 No 🛛 Line Ins	erted Yes INO	
Existing EFV ☐ Yes ℤ ncident Report # Vas the damage/leak di	No EFV Operated ⊡Yessovered as the result of c	es 🗹 No (Required for Distribu Material Problem Repo urrent construction activity oc REPAIR DATA I	tion Services only) ort # curring this calendar year?	Yes 🖉 No	
Existing EFV Yes Z ncident Report # Vas the damage/leak di Repair Location Repair Remarks Repaired By LAN ID:	No EFV Operated \Box Yes \Box Scovered as the result of c 28 feet back Left branch given by the second se	es Z No (Required for Distribution Material Problem Report urrent construction activity oc Image: REPAIR DATA Image: REPAIR DATA Image: Report of the construction activity oc Image: Repair DATA Image: Report of the construction activity oc Image: Repair DATA Image: Repair of the construction activity oc Image: Repair of the construction activity oc Image: Repair of the construction activity oc Image: Cons	tion Services only) ort # curring this calendar year? <u>Jencucck</u> <u>CE4</u> • [] /] Repair Tim (24 Hour Tin Yes [] No Paving Needed	□ Yes [No ne / / Ø C i? □ Yes [No	
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xisting EFV Yes ncident Report # Vas the damage/leak di Repair Location Repair Remarks Repair Remarks Repaired By LAN ID: Pipeline Engineer Cons s leak source a mechanic REPAIR CODE: Choos CAPITAL Deactivate #TP Main Deactivate Dist Main =>1 fd Deactivate Entire Service Replace Entire Service Replace Entire Service Replace Entire Service Replace Bist Main >= 100 Replace Service Valve > = 2.10	No EFV Operated []Ye scovered as the result of c 28 feet back Jest branch get back Jest branch Repair uited Yes [] No al joint which can be repaired I e One either Capital or Ma Bell Joint Clamp - Cast Bell Joint Seal - Cast II Cast Iron Repair Sleev Full Circle Clamp - Clamp nch Skinner Pipe Joint Cla 2-inch Ss Clamp w/Anode - C Deactivated Partial Ser Mechanical Repair Fitti Remove/Replace Comp Tighten Cap/Bolt - Fitti	as No (Required for Distribut Material Problem Report urrent construction activity oc Image: Construc	tion Services only) ort # curring this calendar year? <u>Januack</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u> <u>C</u>	Yes No	
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1

GENERAL INSPECTION I	DATA	i
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Reason f □ Facilit	or Inspecti ies Expos	on: 🔲 Leak Re d by Third Part	pair] New Busine cility/Pipe Sp	ss □ Lar ban ☑ Oth	er	econsti . <i>L (</i>	uction 🗆	Plugged C	opper 🔲	Capacity (exp	lain)
Date:	2.	22-1	777		Inspecte	d by LAN II	D: Rec	lacted				
LINE MA LINE MA Steel Wrought In Cast Iron Ductile Iron Copper AldyI-A PE 2406 (0 PE 2406/2 PE 3408 (1 PE 4710 (1 Other Plas	TERIAL on Orange) 708 (Yellow) Black) Black) tic	SOIL TO SOIL TO Clay Rock Sand Loam Wet Exposed F Gravel Other	PE SOIL □ 0 □ 1.00 □ 2,00 □ 5,00 □ >10 acility	RESIST(TP) 1,000 00 - 2.000 00 - 5,000 00 - 10,000 1,000	SURF/ Asphi Conci Above In Su Unsu Water Other	ACE OVER ete 9 Ground bstructure faced /Marsh/Tidal	PA NEAF	FEET EXPO COVER INTER! VED WALL	OSED ON PIPE (Inches) NAL LINER . TO WALL SSEMBLY	☐ Yes ☐ Yes ☐ Yes	Ø No Ø No Ø No	2
Other			NLIS REFE	RENCE #;			LIN	IE SIZE			50	
Pipe to Soil	(Mv)		ATHODIC	PROTEC Reading:		Cathodic Damaged	CON Protect	DITION ion System s 🗆 No		orrective] Yes	Form Issue	id]
			<i>IV</i>	IETALLIC	PIPE	CONDIT	ION					
COATING TYPE	Bare/N Broxy	lone	☐ Single W ☐ Double V	Irap ☐ Son Vrap ☐ Extr	nastic [u Coat [Hot Applied Other	Asphalt	COATIN	G [ION [] Excellent] Good	Seir	16-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-
COATING D	AMAGED	🛛 Yes	🛛 No	COAT	ING REPA	IRED		Yes 🔲	No			
ASBESTOS		□ Yes □ M		PIPE	SUPPORT	CONDITION		Good 🔲	Possible Lac	k of - Cons	ult Engineer	
CIRCUMFE	RENTIAL	VELD CONDITI	DN (Visual)	Acceptable [] (High/Low Obse	rved	Dimensions n	ot in toleranc	e (See <u>D-20</u>) or <u>D-22</u>)	
i.	LONG SI Pipe Grade	AM (TP only) Spec (TP only)		DSAW ∐ERN Grade B □X42	₩ ∐ AO S □X52 □X6	mith ∐ Spira i0	I ∐ SSA 70	W LI SML	S LI LAP L	J Flash		
			1	EXTER	NAL INS	PECTION						
RUST		J Light LJ Heavy	WALL THICKNE TP) (inches)	SS (Req. for		•		WALL TH	ICKNESS		□ Yes □	No
PITTING	None [] Light 🔲 Heavy	MAX. PIT DEPTH	I (Req. for TP)				GRAPHI	FIZED (Cast	lron)	Yes 🗌	No
GOUGING	□ None [Light 🛛 Heavy	MAX. GOUGE D (inches)	EPTH (Req. for	TP)	•		MAX. GO TP) (inch	UGE Length les)	I (Req. for		
			Length (Req. for	TP) (inches)	<u> </u>			DEPINC	JF DENIS (II	icnes)	n si 1 si	
*****	13 10 11			INTER	NAL INS	PECTION						
RUST		J Light LJ Heavy	PITING L		It LI Heav	/y MAX.	PIT DEPT	H (Req. for	(IP) (Inches)			
		·· 10	——] F	PLASTIC	PIPE C	ONDITIC	אר אר				······	
PRINTLINE L PIPE MANUF				MANUF	ACTURE DA	TE LOCA	TING WI	RE SIZE	y L	OCATING	WIRE CON	DITION
GOUGING	U Yes	UNDER STR	ESS/ QYes	DISCOLO	RING TO GI		s Cf	RACKING	□ Yes	IN CONT		Vone Ves
	. <u></u>	UGE DEPTH 006E DEPTH 0-50% □ >50%			APPEARA	LENO NCE (SEE S41 LUnaccentable	70)		TEE CA	HARD C	NG CYes	M NO TNO
			" CVC	OUNDT			T DA	ΓΛ "				
Damaging	Party Type		Party (PG&F)	□ Second	Party (Cov	tractor work	nd on P	G&F Joh)	Third 4	Party (Evo		
Damaging Damaging	Party Nam Party Opei	e; ator:			Add	lress:		<u></u>		<u>uniy (Luna</u>	<u> </u>	
City:				Phone:					Zip Code			
Zero Custon	iers Out lo	Est. Date and 1 (o	ime of Restoration r CGI)		•		•		Time (24 Hour)			
# INJURED:	s o	THERS	DAMAGE #	Cust.		# Cust.	FI	RE []Yes	D No	EXPLOS		s 🗌 No
#FATAL	EMPLOYER	<u></u>	1 2 1	Media 🗌 Yes		Media Type	-1	Radio 🗖	Newsnahar	NamelCha	inel:	
DOT REI	PORTABLE	E (Fatality, In-pat	ent Hospitalizatio	n, ≥\$50K Prop	perty Dama	ge) 🗌 Yes [CPUC REPO	RTABLE (Ma	jor News M	edia) [] Yes	□ No

Page 3 of 4

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	LOCATION SI	KETCH	
REQUIRED for new or returned to service segments of main or diservice: On-Site Test Pre-Test Soap Test TESTEDAT / OP PSIG FOR HeaviNinutes TEST in accordance with A-34 BY: (LAN ID) Redacted DATE 3 2 2 4 ()	TYPE OF MATERIAL INSTALLED 1/21 Manufacturer Name DAMECORPUTY Size: 1/2 SDR: 7 WT:	MFG. DATE (MW/DDMY) 07 109 110 See <u>A-93</u>	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 ofmain orservice:On-Site TestPre-TestSoap Test TESTED ATPSIG FORHour/Minutes TEST in accordance with A-34 BY: (LAN ID) DATE	TYPE OF MATERIAL INSTALLED Manufacturer Name Sjze: SDR: WT:	MFG. DATE (MMDD/YY) 	D-34 Qualifications for joining plastic: Plastic Joined BY: (LAN ID) Date: 3 · 22 - / (
Comments: and dest de mstade of a period pape of Recacted Responsible Person LAN ID: A sketch is required for all repairs (If any fi N N	1 1 2 pulmate of large 2 or directions as to where to find ittings are used, then text and/or Redacted	the sketch is requ	LOA 5 Min ired, if it is located on another record). v location.
Redacted Please Note: EMS Markers are to be installed for Unlocatable Field Supervisor Redacted	e Facilities, Deactivated Facilities and w	here plastic is found w	ithout wire. All EMS markers shall be clearly dimensioned.
Reviewed By LAN ID: Mapping Reviewed By LAN ID:	Date 04 - 0		Posting Required □ Yes ONo

				1 A 1
	ALC: 124-126	- A -		
			3 M	
- K			0.04	- 1
	~ ~ ~			



STANDARD CATHODIC PROTECTION MAINTENANCE REPORT (Form must be completed in Non-erasable Ink)

A. RECORD INFORMATION

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

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

TEST LOCATION	BASE DATA	LAST YR READING	Jan	MAR	MAY		3414		SEPT		Nou	
1. Redacted	-956	910	961	967	731	869	TIL	866	798	363	-901	
2	-1069	979	1050	10.59	359	974	820	1007	747	961	1006	· · · · · · · ·
3.												
4.												
5.			· · · · · · · · · · · · · · · · · · ·									
6												
DATA RECORDED BY (LAN ID)	Redacted			-r	<u></u>	wh.						
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	

and a second			C. GALVA	INIC ANOI	JE/RECTI	-IER MEA	SUREMENT	S				and the second	5.5 ⁵ 255
GALVANIC ANODE OR RECTIFIER	BASE	LAST YR	INTE	ERFEREN	CE TEST F	RECTIFIER	-1. <u>4.58</u>	AMPS, 2	AMP	s, 3	AMPS, 4.	AMI	≥S
LOCATION	PAIA			VOLTS/AMPS									
1. Redacted	3.2A	3.2A				3.9	3.9	3.9		3.2			
2	7.7V	STV				8.5	5.8	\$.5		8.5			
3.				-									
4.													
5. 5 . 1997 - 1													
6.				1									
DATA RECORDED BY (LAN ID)	Redacted	1			<u>den anticipation de la constitución de la const</u>			<u>, 1 </u>					
DATA RECORDED BY (INITIALS)	1												-
DATE (MONTH/DAY)	7/28/04	5-29				5/23/11	7.6.11	7-12-11		10-3-11			
				D. R	ECORD R	EVIEW							
BI-MONTHLY REVIEWED BY (LAN ID)			Redacted	11. 11.	1			<u> </u>					
BI-MONTHLY REVIEWED BY (INITIALS)													
DATE (MONTH/DAY)			s/ia/ii	shiphy	SIZOIN	\$1410		8/4/1	idizla	10/12/11	11/4/11		

GT&D 01/09 FO-16-D

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Pacific Gas and Electric Company..

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CPA System No.

DATE	LAN ID	INITIALS	WORK DESCRIPTION
5/23/1	Redacted		After multible days trouble shorting determined there
			were no contacts. Interference test on rectifier is
			4.5 Amps. Determined anothes are depleting paised
		-	rectifier to 3.9 mps area Now is up.
7-12-11		-	Blown fuse on vectifier, aver now up.
103-11			Meter set had a ground size attached to riser.
			there own contacted, Ground removed, area now yp.
			Redacted
	100 - 100 - 100 100 - 100 100 - 100		
		1	
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1			
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1977 - S 1. 4. [1]			
		Ender State	

Scoll

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

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

Redacted P/10/12 by SEP3 1 bound Stevens Redacted P/S - -983 mV. p/S - -983 mV. p/S - -983 mV. De Soud P/S - -820 mV. Installed devidentle Anode. As left P/S - -1221 mV. As left P/S - -1221 mV. Redacted Could be found.

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

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Electric Company.	TANDA	RD CA (Fo	THODI orm mus	C PROT	TE iC	ON MAI Non-eras	NTENAI sable Ink)	NCE I	REPOR					GT&D 01/09 FO-16-D	
LOCATION COLUSA 10% SHEET	<u>.</u> 1			A. REC		RMATION			SYSTEM			EMID	1 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		
	*. 														
AREA 6					IN SACRA	IVIENTO			TRICE CC	DLUSA		YEAR	<u>.</u>		
		B. P	PIPE-TO-SO	DIL POTEN	TIAL MEA	SUREMEN	TS (MILLIVO	DLTS)							
TEST LOCATION	BASE DATA	LAST YR READING	2009	Dolo	2011	2013.							an a		
Redacted		1001/05	Constitution of the second sec			076									
2		945/01		1010	- Ingeland	935									
3.		945/01	States and	1570	Sec. Sec.	Service .									
4.		1071/04	Shares.	Same	1004	"Same		na an a							
5		1321/02	and and a second se	1561	Contraction of the second										
6.		1012/06	*sect*	@***#jiggourn		Summers.									
DATA RECORDED BY (LAN ID) SEP3				Redacted		-									
DATA RECORDED BY (INITIALS)		SP						· · · · · · · · · · · · · · · · · · ·							
DATE (MONTH/DAY)			1 - N	1 Malon	talist.	1 Mittalia								and the second second	
		<u>موجعة المحمد /u>		T 1 1 12 1 1 1000	1 100111	1 120112	l <u> l</u>					بالبيبي سيراب			
			C. GALV		DE/RECTIF	FIER MEAS	UREMENTS					<u></u>		-li	
GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR READING	C. GALV	ANIC ANOL	DE/RECTIF	TIER MEAS	UREMENTS	MPS, 2.	AMF	² S, 3	AMP	S, 4	AM	PS	
GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR READING	C. GALV		DE/RECTIF	FIER MEAS	UREMENTS - 1 A VOL	MPS, 2. TS/AMI	AMF PS	>S, 3.	_AMP	S, 4	AM	PS	
GALVANIC ANODE OR RECTIFIER LOCATION	BASE DATA	LAST YR READING	C. GALV				UREMENTS - 1 A VOL	MPS, 2. TS/AMI	AMF PS	×s, 3.	AMP	S, 4	AM	PS	
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GALVANIC ANODE OR RECTIFIER LOCATION 1. 2. 3. 4. 5. 6.	BASE DATA		C. GALV. INT		DE/RECTIF	FIER MEAS	UREMENTS -1A VOL	MPS, 2. TS/AMI	AMI 2S	PS, 3	_ AMP	S, 4.	AM	PS	
GALVANIC ANODE OR RECTIFIER LOCATION 1. 2. 3. 4. 5. 6. DATA RECORDED BY (LAN ID)	BASE DATA		C. GALV. INT				UREMENTS -1A VOL	MPS, 2. TS/AMI	AMI >S	>S, 3.	AMP	S, 4.	AM.	PS	
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and a second


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
9/10/12	Redacted		Redacted Redline up ical from
			Ric which - 183me Rave during Plue Acart
			was - saling on stars /11 wing read it
			- Legu M.

STANDARD CATHODIC PRC -SCTION MAINTENANCE

ncific Gas and ectric Company.

121814

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		Accit	2010	Эсц	222						
1.Red	acted		104 proz		-	964	Annana.	-1221						
2.			113/2000		- 3 <i>2</i> ~1	C-Pa	Fresh	Sector and the sector of the s						
3.			53/2000		1003/04									
- 4:			Howar		924109			20	- Addye	ss doe	5 Act	Crist	77	
5.				174la	کنینینگ ا	(Annaly and Annaly and Annal		00-						
6.				1738	- Jahan Paris-	. ingaan are and	S.	-						
7.				1243	1		"Witawa							
. 8.						943	P Transver	-1291						
DATA	RECORDED BY			Redacted	1									
DATE (MONTH/DAY)			1/17/07		De /, .		R Mah						

C. GALVANIC ANODE/RECTIFIER MEASUREMENTS

GALVANIC ANODE LOCATION OR RECTIFIER LOCATION	BASE DATA	LAST YR. READ	INTERF	ERENCE	FEST REC	TIFIER 1.	AM VC	PS, 2 DLTS/AM		i, 3	_AMPS, 4	. <u> </u>	MPS
2.													
3									-				
M is a second													in the second se
DATA RECORDED BY													
DATE (MONTH/DAY)													1
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REVIEWED BY (REQUIRED BIMONTHLY)			Redacte	d	-								
DATE (MONTH/DAY)			1/2/08	8/2/20	Redact		Plalie		-			1	

4(21/10 1 of 3



E. LOG OF CATHODIC PROTECTION MAINTENANCE WORK

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		04	
1.000			
	1.18	5-13-	

CP System No. ____ DATE INITIALS WORK DESCRIPTION Yills Redacted 24 driveable ande Redacted Installed 1/1/2 Stalled 到证 Weahle cipiche J. Nic 习得 Stallal respla arrive ζ Redacted 63836 -SABmu S 5.5 711211 Redacted Luci abovebl f. 5 1221 1011



Work Ticket

Always put safety first!

Order No.: 41496235 Operation No.: 0010

-					and the second secon				
Assigned Individ	uals: N/A								
Date: 04/29/2011	- 06/23/2011		Work Loc	ation: Redac	ted]	
Description: L	OW PIPE TO SO	L 10% ISOLATED SERV							
Headquarters: N	MRYSVLLE		Job Own	er: Reda	acted				
MAT Code: F	II - Maint-Corr-G	Cath Prot	Job Own	er No.: 530/6	34-6628				
Operation: 0010	Notification: 10	5317014	LAN Id:		Date:			Act. Hrs.:	
Tech ld:	Location:	en jangan di karangan di ka Karangan di karangan di kara	Equip.:			Oper	. Desc.:		
N/A	GD.CORR CORROSION		N/A			CON	STRUCTIC	Ň	
Latitude:			ale transformer						
Problem: Pipe to	Soil less negativ	/e than -850 mV	Sec. 19.						
	C/	USE				ACTI	VITY		
3rd Party Damage		MeterContact		Clear Conta	ct				
Area Found Up	a Found Up No Power			Other					······································
Bad Connections	Connections No Test Lead			Re-Read					
Broken Wire		Other		Repair	- Aller	AAA	PPA		
Depleted Anode		Reclifier (reset/replace f	luse)	Replace	26	4 N			
Electrical Ground	n ann an a	Underground Contact							
Gas Construction		Uninsulated Meter Set							
Comments:		land and an and a second s			and a second				
					········				
Operation: 0020	Notification: 10	5317014	LAN Id:		Date:			Act. Hrs.:	******
Tech Id:	Location:		Equip.;	· ····		Oper	Desc.:		And the second s
N/A	GD.CORR	× .	N/A			Post-	Read ETS'	8	
							an Mariana an Anna an A		
Latitude:									
Comments:		er on the second second statement of the second					an a		
			·	Manager and a subscription of the subscription					
Operation: 0030	Notification: 10	5317014	LAN Id:		Date:	and the factor		Act. Hrs.:	
Tech Id:	Location:		Equip.:			Oper.	Desc.:		
N/A	GD.CORR		N/A		⁻	ASSE		IATION	
	CORROSION								
								ter en	
Latitude:		ni Dan da an san an agus		Sector Contractor			Salt Survis		and serve
Problem: Pipe to	Soil less negativ	e than -850 mV							
	<u>CA</u>	USE		<u>n haran</u> Territoria		ACTI	VITY		
3rd Party Damage		MeterContact	·····	Clear Conta	ct	1963 - 1975 - 19			
Area Found Up		No Power		Other					1
Bad Connections		No Test Lead		Re-Read				······································	
Broken Wire	1	Other		Repair					
Depleted Anode		Rectifier (reset/replace fi	use)	Replace		a second a second			

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同時 同時	Sleasofa	850 8° 0413	annin [©]
目的目	owrapeser)	(Ka 10916888	куличкар
A March Same			or contraction of the second second

Work Ticket

Always put safety first!

Electrical Ground Underground Contact							-	
Gas Construction		Uninsulated Meter Sel					1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 -	
Comments:								
			ler					
Long lext:	xt: * 05/24/2011 13:20:21 Redacted Phone Redacted							
	* LOW PS RE * DRIVEABLE	AD. REPAIR AND RER ANODE.	EAD, ISOLAT	ED SERVICE. NEI	ED TO INSTALL			
Items:								
[] *10 Percenter	(<100')	[] *Pipe	to Soil less n	egative than -850 m	V []*Rep	palr		-
Facility Repo	ort Reviewed?	🗆 Yes 🛛	No	Asset Regis	try Update R	equired?] Yes	🗆 No
[] As-Built Atta	ched							
COMMENTS		and the second sec	······					
		in the sector many more than the		and a start and a start		· · · · · · · · · · · · · · · · · · ·	ang tanàng samanan	
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							<u>terni de litera</u>	
Notification Num	ber: 000	105317014		Completion Date:	1	······		· · · · · · · · · · · · · · · · · · ·
I have reviewe	ed and approve	this Work Ticket a	nd Facility I	Report (if applic	able) for accu	racy.		
Supervisor Signa	sture	Redacted		Date	5/21/11	a Maria Indonesia Antonio Antonio		
						na sena sena sena sena sena sena sena se		

n 1997 - Maria Marina, ang katalan ang ka 1997 - Jawa Marina, ang katalan ang kat			(2)	10	na stanisti Shi mana ta shi a		
CATHODIC PROTECTION		REFERENCE TROUBLESHOONSHPRTMOTIP		Mided Ronald Act ROM Pade §583			
CORRECTIVE WO	RK FORM		auar.			0531704	
Gas Transmission & Distribution 7053		13426		DEK #: HI-	196235		
CREW							
<u>1. PROBLEM DESCRIPTION:</u> Topole anter CPA 1 and 1 and 1 average $(\rho_{1,1}) = \rho_1$	$\frac{1}{2}$ be officing enter CP which is a group REP. $\frac{1}{2}$ $\frac{1}{2}$ \frac	A # and location it IR 2017-0 Brunsw REDGING	available (og. 75 2117-13 Buses ich & Romon) Cale RetCad	Meta 2 Re C			
						and a second sec	
2. STREET ADDRESS: Redacted					<u>З. Сіту:</u>	Slusa	
4. CPANO: Islated Se	1120 5.T	<u>есн ID:</u>	<u>6. P</u>	IPELINE N	<u>o:</u>		
7. COMMENTS (LONG TEXT):	ed to MS	that drive	able applie				
CLEARANCE REQUIRED	ty doe		need to be] Estima 	ting Required	SC	
	V. Startes						
GAS DIST	RIBUTION		G	AS TRAN	SMISSION		
Expense	СА	PITAL	EXPENSE		C/	PITAL	
3. GC NOTIFICATION GAS DIST – CORRECTIVE/EXPENSE)	GR NOTIFICATION (GAS DIST – PROJECT/CAPITAL)		Gas Trans – Corrective/Ex	PENSE)	Gas Trans-Project/Capital)		
3 = URGENT COMPLIANCE	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 558 – 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 Re 655 – GT CP Area Down 657 – GT CP Area Down	<u>YPE CODE (TC):</u> – GT CP Area Up Repair – GT CP Area Down T/S – GT CP Area Down Repair		WORK TYPE CODE (TR): 317 – GT CP Area Down Repair 380 – GT CP Area Up Repair	
11. CREW CLASS: Duration Needed: Image: Constraint of the second secon		CREW CLASS: Duration Needed: Troubleman Needed ED_TMAN1 MIN / H GSR Needed GSR_1 MIN / H					
12. READINGS: Post-Read ETS		Post-Read Rectifiers					
10gber	Pipe-To-Soil (mV	n: 1636	Volts:		/olts:	s: Amps:	
	Pipe-To-Soil (mV	<u>):</u>	V		/olts:	Amps:	
13. REPORTED BY (I AN ID): Redacted			Volts: Amps: 14. Est. Material Cost: \$				
15. REQUIRED START DATE: 4 15	2911		16. REQUIRED END DATE:	5 129	ų		
17. WORK COMPLETED BY (TECH INSP AN ID: Redacted	PECT BY)	<u>18. Work Comp</u> <u>Date:</u> 512	LETED ON (TECH INSPECT ON): $\leq I ll$	<u>19. Act</u>	IUAL LABOR/WRI	nch Hours:	
0. SUPERVISOR					en e		
Task: REVW Work Reviewed/Approved by Supervisor (LAN ID):				Reviewed/Comp. Date: / /			
.ocal Headquarter Clerk						an a	
21. PLANT SECTION/COUNTY: 22. LOCATION/DIVISION: ST. 23. MAIN WORK CENTER: Colusa					· Colusa		
4. FUNCTIONAL LOCATION:							
E CAD FOUNDARITH AL	<u>() (</u>	10 - 11	le - J.	s 1 m	ala sa s		

JA_ 096K Corrosion Corrective Work Form – GT&D

11/29/10



Pole Mount/Pedestal Mount Rectifier Test and ant to P.U. Code §583 Site Evaluation Form

GT&D 01/09 FO-11.1-A

(Form must be completed in Non-erasable ink)

	na 19 - 19 - 19 - 19 - 19 - 19 - 19 - 19	Record Information				genter solder s anne		
Address Redacted City MARYSVILLE			CPA # 12M005					
Rectifier # 120085 Rectifier Manufacturer GOODALL			Rectifier Serial # 84F2167					
Area 6 Division SIERRA			District COLGATE					
Chee	ck AC Switch Box, Rectifier and DC Riser, fo	r AC before starting any work. If AC is found co	rect immed	lately, or d	e-energiz	e Rectifier.	Check	
box	for all items inspected and Record AC/DC vo or on back of form. All defective items must	bitage and DC amperage measurements leave bi	ank if not a	pplicable. I s not corre	Note corre	ctions or c n 30 days	hanges	
Items of inspection								
	Verify Arc Flash sticker is installed	मि	TA		वि			
	Test riser, switch box, and rectifier for AC				TTT I	<u> </u>		
	Check for continuity between the AC disc		R			-FI		
	Inspect paint condition of rectifier and AC		M	- T	<u> </u>			
	PVC service riser free of separations, de	PVC service riser free of separations defects and securely strapped				ष		
	Verify AC disconnect switch enclosure is	fv AC disconnect switch enclosure is locked						
	Verify AC disconnect switch handle can t	be and is locked in the "on" position	P	िलि	- IIII	ाय ।		
Þ	Inspect AC disconnect switch for any ope	enings or exposed wires	- IP	Ø	লি	Tar		
C X	Inspect AC disconnect switch for internal	corrosion	- -	R	TT I	व		
olta	Verify ground wire is connected to AC dis	sconnect neutral bus	1 DZ	Ø		a		
je je	Verify bonding screw or jumper is installed in AC disconnect neutral bus			R	V	- a		
	Verify bonding screw or jumper and AC d	lisconnect switch box are common	ET I	Ø	Ī	Ter	一一一	
	Verify that the hot leg is fused and that the	e neutral wire is connected to the neutral bus	P	Ī	वि	Ī		
	Record AC Breaker disconnect switch rat	ling						
	Record Fusible AC disconnect switch rati	ng			energia de la composición de la composi La composición de la c La composición de la c			
	Record AC Voltage (per Electric Rule 2 c	ould range between 114 VAC - 126 VAC)	120V	12W	127+	1220		
	Record AC Breaker or Fuse size (fuse sh rating of rectifier or next highest size)	1.14	115	640	6110			
	Verify ground rods are below grade and r	P	- III	षि	ाव	П		
Re	Record Ground Resistance as found (in c	ohms)	1.9	Toolo	69	6.8		
sist	If Ground Resistance is above 25 ohms,				П			
ance	Ground resistance is above 25 ohms, 2 nd	ground rod is installed 6' apart						
	Record Ground Resistance as left (in ohr	4.3	6.6	10.9	10.8			
	Verify Rectifier Enclosure is locked		Ø	Ø	U	Ū		
	Verify PG&E Equipment Identification stic	ker is installed	E	ľ		P		
	Inspect Rectifier for any openings or expo	osed wires	Ø		Ø	P		
Rectifie	Inspect rectifier for internal corrosion		W		Ø	T		
	Record Rectifier DC Amps Rating		SA	5A	5A	5A		
7	Record Rectifier DC Volts Rating		401	404	yor	401		
	Record Rectifier DC Amps		2.4A	2.4A	2.5A	25A		
	Record Rectifier DC Volts		7.04	7.14	12.60	12.5v		
Rt. 1 Review	RECORDED BY (INITIALS)			Redacted				
	RECORDED BY (LAN ID)							
	DATE (MONTH/DAY)			3/17/09 3/20/10 3/20/11 3/20/17				
	REVIEWED BY (INITIALS)			Redacted				
	REVIEWED BY (LAN ID)							
	DATE (MONTH/DAY)		3/24/01	3/31/10	416/11	5/22/12	 	
	and the second					E		