

**PACIFIC GAS AND ELECTRIC COMPANY
Gas Distribution Expenditures Audit
Data Response**

PG&E Data Request No.:	OverlandConsulting_025-907		
PG&E File Name:	GasDistributionExpendituresAudit_DR_OverlandConsulting_025-Q907		
Request Date:	December 4, 2012	Requester DR No.:	025
Date Sent:	January 3, 2013	Requesting Party:	Overland Consulting, Inc.
PG&E Witness:		Requester:	Gary Harpster

QUESTION 907

Please provide a schedule showing the total number of Grade 1 leak repairs on distribution mains by year for 2003 to 2011 by leak cause category.

ANSWER 907

In the table below, PG&E is providing the total number of Grade 1 leak repairs on distribution mains by year for 2003 to 2011, by leak cause category.

Grade 1 Distribution Main Leak Repairs*									
By Leak Cause Category	Year Repaired								
	2003	2004	2005	2006	2007	2008	2009	2010	2011
Atmospheric Corrosion	1	5	2	3	2	9	8	7	6
Cast Iron Fractures	8	5	9	5	3	9	12	5	
Compression Coupling									2
Construction Defect	95	90	77	80	107	155	327	174	180
Damage by 3rd Party	32	32	29	8	5	12	10	9	9
Damage by Earth Movement	17	21	7	17	18	5	6	12	13
Damage by Electrical Facility		2	1	1	3	2	4		1
Damage by Heavy Rains/Flood				1					
Deliberate Acts/Vandalism	2	2							
Dig-In/Excavation	700	731	591	593	484	319	213	199	167
Earthquake									2
Equipment Malfunction		1	1	1	1	1	14	7	8
External Corrosion	105	84	100	88	71	133	337	255	224
Fire or Explosion on Company Facilities									1
Incorrect Operation							8	3	7
Internal Corrosion	3	3			4	3	2	1	1
Lightning								2	
Material Failure	27	24	28	24	13	38	56	30	27
No/Deteriorated Pipe Dope								6	64
Other	60	47	43	24	16	71	95	72	43
Other Natural Forces								3	8
Plastic Crack Failure	25	25	39	32	38	65	78	69	59
Plastic Embrittlement				2		8	9	7	5
Previously Damaged						7	14	2	6
Root Damage								6	14
Stress Corrosion Cracking						3	4	4	8
Unknown (Replaced facility)	19	21	13	18	20	38	53	67	28
Weld Failure						7	25	18	34
Total	1,094	1,093	940	897	785	885	1,275	958	917

*Data via download of IGIS 12/18/2012. There are minor differences from the leak repair data shown in PG&E's 2014 GRC application. IGIS is a dynamic database where historical results are subject to corrections and updates. The IGIS query used to create the table above was run at a different time than the query used in the GRC application.