

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

PG&E Data Request No.:	OverlandConsulting_025-908		
PG&E File Name:	GasDistributionExpendituresAudit_DR_OverlandConsulting_025-Q908		
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 908

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

ANSWER 908

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

Grade 1 Distribution Main Leak Repairs*	Year Repaired								
	2003	2004	2005	2006	2007	2008	2009	2010	2011
Atmospheric Corrosion	470	605	625	527	525	791	1,301	727	602
Cast Iron Fractures	1				1	1	5	1	
Compression Coupling								7	30
Construction Defect	477	516	505	541	598	1,442	3,056	1,412	1,039
Damage by 3rd Party	178	197	191	87	61	85	98	91	88
Damage by Earth Movement	58	68	43	76	54	16	20	20	14
Damage by Electrical Facility	11	6	5	6	12	9	3	8	6
Damage by Heavy Rains/Flood	1			5	4	1	3		1
Deliberate Acts/Vandalism		6	1		1	4	3	6	13
Dig-In/Excavation	2,552	2,587	2,498	2,442	2,307	1,878	1,507	1,414	1,429
Earthquake									1
Equipment Malfunction	1	3	3	2	3	32	140	76	34
External Corrosion	435	342	305	243	237	397	879	572	494
Fire or Explosion on Company Facilities									8
Fire or Explosion on Customer Facilities		2	2	3		21	20	44	4
Incorrect Operation						13	44	31	80
Internal Corrosion	28	34	32	36	43	40	36	22	11
Lightning								1	
Material Failure	165	198	167	169	175	377	853	480	406
No/Deteriorated Pipe Dope								21	373
Other	208	216	182	174	162	1,082	1,213	496	140
Other Natural Forces								13	16
Plastic Crack Failure	52	52	104	84	74	145	377	244	161
Plastic Embrittlement			2	20	17	35	92	55	21
Previously Damaged						14	42	25	36
Rodent								2	18
Root Damage								11	30
Stress Corrosion Cracking						14	19	14	16
Unknown (Replaced facility)	115	173	161	167	154	533	951	560	276
Vehicle	38	18	20	20	17	21	24	13	32
Weld Failure						26	88	60	24
Total	4,790	5,023	4,846	4,602	4,445	6,977	10,774	6,426	5,403

*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.