



**Pacific Gas and
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March 1, 2013

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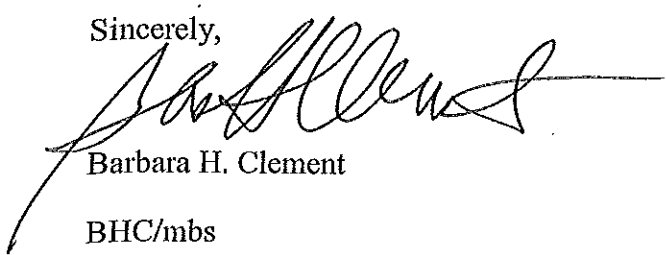
Paul Clanon, Executive Director
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: 2012 Annual Electric Distribution Reliability Report, D96-09-045 and D.04-10-034

Dear Mr. Clanon:

Pursuant to Decision 96-09-045 and portions of Decision 04-10-034, enclosed is a copy of Pacific Gas and Electric Company's 2012 Annual Electric Distribution Reliability Report. I am also sending you an electronic version via email.

Sincerely,



Barbara H. Clement

BHC/mbs

cc: Edward Randolph, Director
David K. Kee, Energy Division
Joe Como, Acting Director DRA
Linda Serizawa, Deputy Director, DRA
Mark Pocta, Program Manager, DRA

Enclosure

PACIFIC GAS AND ELECTRIC COMPANY
2012 ANNUAL ELECTRIC RELIABILITY REPORT
(D.96-09-045 AND D.04-10-034)

MARCH 1, 2013

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NOTE: Some graphics provided in this report are photocopies of graphics used in earlier reports and are not completely legible. Please contact PG&E if you have any questions about the information provided in those graphics.

General

This is the 2012 Reliability Report for Pacific Gas & Electric Company as required by Decision 96-09-045. This report also includes system reliability data based on the IEEE Standard 1366 as stated in the CPUC approved PG&E Advice Letter 3812-E (approved on July 25, 2011). In addition, this report includes some additional reporting requirements as specified in Decision 04-10-034 and its Appendix A. The report consists of the following:

Section	Description
1.	System Indices For The Last 10 Years (2003-2012)
2.	Significant Outage Events Of 2012
3.	Customers Experiencing >12 Sustained Outages In 2012
4.	Attachment 1 - Division Reliability Indices (Per D. 04-10-034, Appendix A, Agreement 1)
5.	Attachment 2 - PG&E Service Territory Map
6.	Attachment 3 - Summary list of Excludable Major Events per D. 96-09-045
7.	Attachment 4 - System Indices For The Last 10 Years (2003-2012) Based on IEEE 1366
8.	Attachment 5 - Historical (2002-2011) Outage Information From Prior Reports

PG&E maintains account specific information for customers affected by outages that are recorded in PG&E's outage reporting system (OUTAGE). This system tracks outages at the generation, transmission, substation, primary distribution, and individual transformer levels. Additionally, OUTAGE models the actual electric switching operations during the circuit restoration process (which is useful for determining accurate customer outage minutes for calculating SAIDI and CAIDI). PG&E used its most current outage data to compile the information contained in this report.

SECTION 1

System Indices (2003-2012)

Table 1 lists the required SAIDI, SAIFI, and MAIFI values in accordance with Appendix A of D. 96-09-045. As required by Decision 04-10-034, CAIDI values are also included in this report.

Table 1 - System Indices (2003-2012)

(Includes Transmission, Distribution and Generation related outages)

YEAR	Major Events Included				Major Events Excluded			
	SAIDI	SAIFI	MAIFI	CAIDI	SAIDI	SAIFI	MAIFI	CAIDI
2003	208.0	1.411	1.878	147.5	201.8	1.389	1.874	145.3
2004	205.3	1.426	1.875	143.9	205.1	1.425	1.872	143.9
2005	249.3	1.549	1.895	161.0	187.1	1.407	1.782	132.9
2006	280.5	1.727	1.768	162.4	150.9	1.273	1.532	118.5
2007	159.9	1.249	1.565	128.0	159.9	1.249	1.565	128.0
2008	416.4	1.563	1.829	266.4	166.7	1.254	1.634	132.9
2009	208.2	1.308	1.540	159.1	163.1	1.193	1.474	136.7
2010	246.3	1.384	1.487	178.0	168.6	1.167	1.311	144.4
2011	275.7	1.261	1.478	218.6	236.0	1.195	1.434	197.6
2012	138.9	1.118	1.918	124.3	138.9	1.118	1.918	124.3

Included in this annual report is supplemental information noted in Tables 2 and 3 representing the corresponding indexes separated for both the distribution and transmission systems. It should be noted that the totals from these two tables will not exactly match Table 1 for the following reasons:

- Generation related outages are included in Table 1 but not in Tables 2 and 3;
- There are database limitations related to the major event exclusion process when separating the transmission and distribution systems.

Please also note, the MAIFI information is not included in these tables since the existing non-SCADA automatic recording devices (EON¹ or Smart Meters) do not distinguish between the two systems.

Table 2 - Distribution System Indices (2003-2012)
(Excludes transmission and generation related outages)

YEAR	Major Events Included			Major Events Excluded		
	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
2003	187.6	1.283	146.3	181.6	1.263	143.9
2004	181.7	1.277	142.2	181.5	1.277	142.1
2005	210.9	1.352	156.0	157.7	1.222	129.0
2006	251.0	1.534	163.6	136.5	1.137	120.1
2007	138.6	1.117	124.0	138.6	1.117	124.0
2008	377.8	1.428	264.6	150.3	1.155	130.1
2009	192.8	1.204	160.2	149.9	1.099	136.3
2010	220.0	1.251	175.9	153.4	1.066	143.9
2011	243.9	1.115	218.8	215.5	1.085	198.7
2012	122.3	1.010	121.1	122.3	1.010	121.1

Table 3 - Transmission System Indices (2003-2012)
(Excludes distribution and generation related outages)

YEAR	Major Events Included			Major Events Excluded		
	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
2003	20.4	0.128	159.7	20.2	0.127	159.5
2004	23.3	0.148	157.7	23.3	0.148	157.8
2005	38.3	0.197	195.1	29.3	0.185	158.8
2006	29.5	0.193	152.5	14.4	0.136	105.4
2007	21.3	0.132	161.5	21.3	0.132	161.5
2008	38.3	0.135	284.3	16.2	0.099	163.6
2009	15.4	0.105	147.0	13.2	0.094	140.7
2010	26.3	0.133	198.4	15.2	0.101	149.7
2011	31.7	0.144	219.7	29.1	0.129	225.2
2012	16.6	0.108	153.3	16.6	0.108	153.3

Excludable Major Events

Appendix A to D. 96-09-045 defines Excludable Major Events as follows:

Each utility will exclude from calculation of its reliability indices major events that meet either of the two following criteria: (a) the event is caused by earthquake, fire, or storms of sufficient intensity to give rise to a state of emergency being declared by the government, or (b) any other disaster not in (a) that affects more than 15% of the system facilities or 10% of the utility's customers, whichever is less for each event.

There were no Excludable Major Events in 2012, as defined in Appendix A of D. 96-09-045.

¹ On November 18, 2011 the EON recording system was removed from service. Momentary outage data is now being collected from SCADA devices and through the use of Smart Meters. Data collection from the Smart Meters is more effective than the previous EON system since Smart Meters don't rely on customer volunteers having EON devices securely connected inside their buildings. PG&E anticipates that the number of future momentary outages recorded will increase slightly as a result of this more effective approach.

SECTION 2

Significant Outage Events Of 2012

Table 5 lists the ten largest outage events experienced during 2012. PG&E interprets this reporting requirement as the ten events (individual days or in some cases a group of consecutive days) with a significant number of customer interruptions in the system or a portion of the system. These events are listed in descending order of customer interruptions.

Table 4 - Ten Largest 2012 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	The final and strongest storm of an 'Atmospheric River' series moved through the territory on 12/02/2012 delivering widespread gusts of 50-70 mph in the northern Sacramento Valley. The strongest wind observed was in Plumas National Forest where a gust of 102 mph was recorded. This system also brought heavy amounts of rain across northern California where localized flooding and mudslides were reported in numerous locations. Precipitation totals from the entire series (See Rank #3) topped 20 inches in the wettest locations in the north.	12/02/2012	298,393	80		N
2	A series of moderate to strong storms impacted the Service Area delivering rain, wind, thunderstorms and several feet of snow across the northern mountains and Sierra. The second storm in the series moved onto the Humboldt coast during the evening of 12/21 and then progressed south and east through the territory overnight into 12/22. The third and strongest storm of the series developed just off the coast and pushed a vigorous cold front through the Service Area on 12/23. Gusts up to 80 mph were observed over elevated terrain. Yet another round of heavy mountain snow fell across the north and the Sierra. Up to 6 feet of snow fell in some locations across the north during the series making restoration difficult.	12/21/2012 – 12/23/2012	195,099	172		N
3	The first storm of the 'Atmospheric River' series moved into the territory on 11/28 and delivered strong south winds up to 50-60 mph and heavy rains. The second and stronger system impacted the Territory 11/29 through 11/30. This system brought significant rainfall totals across the north half of the Territory with up to 10" observed in the wettest locations across elevated terrain. After a brief break on 12/1 the final and strongest storm of the series moved through on 12/2 (see Rank 1).	11/28/2012 – 11/30/2012	183,145	71		N
4	On 1/20 a strong Pacific weather system with an associated well-organized frontal band pushed north to south through the territory. This system delivered heavy rains and gusty southerly winds to most locations and was the first rain in a month or more for many locations across the south half of the territory.	1/20/2012 – 1/21/2012	168,496	40		N
5	On 3/16 a system impacted Northern Region and the Bay Area with heavy showers, gusty southerly winds, and a few lightning strikes. On 3/17 this system progressed south through Central Coast and Central Valley Divisions bringing heavy rains, thunderstorms and gusty winds. On 3/18, snow levels fell as cold air filtered in resulting in low snow outage activity from Grass Valley south into Fresno division.	3/16/2012 – 3/18/2012	146,602	63		N
6	Overnight Sunday, 10/21/2012 into Monday, 10/22/2012 a cold front associated with a unusually cold, early-season storm swept west to east across the PG&E Service Area bringing a variety of adverse weather including rain, wind, thunderstorms and low snow. Two tornados also formed in the eastern Sacramento Valley and Sierra foothills.	10/22/2012	129,801	22		N
7	A vigorous late season weather system swept through the Service Area on 6/4 – 6/5 and brought a variety of adverse weather conditions. This system delivered over 700 lightning strikes across the Service Territory with the majority occurring in the northern Sacramento Valley. Winds gusting to 40 mph came up abruptly in the San Joaquin causing numerous wind related outages.	6/4/2012 – 6/5/2012	93,735	22		N
8	On 12/17 a weakening front moved through the Service Area bringing rain showers and breezy southerly winds up to 35-40 mph across the Sacramento Valley. Showers progressed into the southern San Joaquin overnight into 12/18. Post-frontal northwest winds then developed across the San Joaquin Valley, with gusts up to 35 mph observed at Fresno.	12/17/2012 – 12/18/2012	83,063	18		N
9	A Pacific storm system and associated cold front and swept through the north half of the PG&E Service Area. The front brought brisk south winds of 30 to 40 mph, with higher gusts over elevated terrain. During the afternoon, thunderstorms formed along the north coast and northern Sacramento Valley in the post-frontal environment.	3/31/2012	68,165	21		N
10	Non weather related event.	7/21/2012	47,182	30		N

* Note: Values exclude single distribution line transformer and planned outages.

SECTION 3

Customers Experiencing > 12 Sustained Outages During 2012

Table 5 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2012. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 5 – Customers Experiencing > 12 Sustained Outages During 2012

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	ROB ROY 2105	1
EAST BAY	NORTH TOWER 2201	8
HUMBOLDT	EEL RIVER 1101	87
HUMBOLDT	GARBERVILLE 1102	637
HUMBOLDT	RIO DELL 1102	16
NORTH BAY	MONTICELLO 1101	10
NORTH BAY	SILVERADO 2102	72
NORTH VALLEY	JACINTO 1101	3
PENINSULA	WOODSIDE 1101	70
SACRAMENTO	DIXON 1103	13
SAN JOSE	MORGAN HILL 2106	4
SIERRA	ALLEGHANY 1101	98
SIERRA	EL DORADO P H 2101	24
SIERRA	OLIVEHURST 1105	7
SIERRA	TAMARACK 1101	23

SECTION 4

Attachment 1

Division Reliability Indices (Per D. 04-10-034, Appendix A, Agreement 1)

Pacific Gas and Electric
Division Reliability Indices
2007-2012
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	CENTRAL COAST	211.7	1.849	2.731	114.5
2008	CENTRAL COAST	268.2	1.807	2.454	148.4
2009	CENTRAL COAST	242.6	2.086	3.120	116.3
2010	CENTRAL COAST	188.2	1.569	3.219	119.9
2011	CENTRAL COAST	410.8	1.495	1.781	274.8
5-Yr Ave	07-11 Avg	264.3	1.761	2.661	154.8
2012	CENTRAL COAST	148.6	1.298	2.364	114.5
	% Difference	-43.8%	-26.3%	-11.2%	-26.0%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	DE ANZA	94.1	0.865	1.136	108.8
2008	DE ANZA	108.4	0.991	1.529	109.3
2009	DE ANZA	104.4	0.890	1.612	117.2
2010	DE ANZA	118.3	0.986	1.276	120.0
2011	DE ANZA	79.0	0.717	1.482	110.2
5-Yr Ave	07-11 Avg	100.8	0.890	1.407	113.1
2012	DE ANZA	79.3	0.708	1.223	111.9
	% Difference	-21.4%	-20.4%	-13.1%	-1.1%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	DIABLO	120.3	1.095	1.579	109.9
2008	DIABLO	138.4	1.361	1.964	101.7
2009	DIABLO	148.2	1.348	1.171	110.0
2010	DIABLO	108.4	1.286	1.245	84.3
2011	DIABLO	73.2	0.898	1.376	81.5
5-Yr Ave	07-11 Avg	117.7	1.198	1.467	97.5
2012	DIABLO	104.0	1.22	1.405	85.3
	% Difference	-11.6%	1.9%	-4.2%	-12.5%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	EAST BAY	164.2	1.310	1.010	125.4
2008	EAST BAY	102.5	0.894	0.809	114.6
2009	EAST BAY	126.4	1.184	0.862	106.8
2010	EAST BAY	112.1	1.005	0.708	111.6
2011	EAST BAY	100.5	0.951	1.078	105.7
5-Yr Ave	07-11 Avg	121.1	1.069	0.893	112.8
2012	EAST BAY	108.8	1.374	1.336	79.2
	% Difference	-10.2%	28.6%	49.5%	-29.8%

Pacific Gas and Electric
Division Reliability Indices
2007-2012
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	FRESNO	229.0	1.771	2.237	129.3
2008	FRESNO	177.8	1.559	1.766	114.1
2009	FRESNO	136.5	1.225	1.814	111.4
2010	FRESNO	115.2	1.056	1.878	109.1
2011	FRESNO	162.7	1.112	2.014	146.4
5-Yr Ave	07-11 Avg	164.2	1.345	1.942	122.1
2012	FRESNO	98.5	1.053	2.360	93.5
	% Difference	-40.0%	-21.7%	21.5%	-23.4%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	HUMBOLDT	552.8	1.833	3.312	301.6
2008	HUMBOLDT	405.4	2.108	2.932	192.3
2009	HUMBOLDT	225.2	1.650	2.367	136.5
2010	HUMBOLDT	420.7	2.189	1.584	192.2
2011	HUMBOLDT	407.7	1.687	2.075	241.6
5-Yr Ave	07-11 Avg	402.4	1.893	2.454	212.8
2012	HUMBOLDT	335.3	1.718	4.665	195.2
	% Difference	-16.7%	-9.3%	90.1%	-8.3%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	KERN	121.7	1.123	1.580	108.3
2008	KERN	161.1	1.358	1.149	118.7
2009	KERN	105.4	1.177	1.446	89.6
2010	KERN	118.6	1.070	1.419	110.8
2011	KERN	165.0	1.258	1.600	131.1
5-Yr Ave	07-11 Avg	134.4	1.197	1.439	111.7
2012	KERN	89.2	0.987	1.221	90.4
	% Difference	-33.6%	-17.6%	-15.1%	-19.1%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	LOS PADRES	134.6	1.156	2.682	116.4
2008	LOS PADRES	184.6	1.591	2.909	116.0
2009	LOS PADRES	108.3	1.051	1.626	103.0
2010	LOS PADRES	107.3	1.158	1.756	92.6
2011	LOS PADRES	120.4	1.154	2.052	104.3
5-Yr Ave	07-11 Avg	131.0	1.222	2.205	106.5
2012	LOS PADRES	94.7	1.023	1.617	92.6
	% Difference	-27.7%	-16.3%	-26.7%	-13.0%

Pacific Gas and Electric
Division Reliability Indices
2007-2012
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	MISSION	82.1	0.829	1.021	99.1
2008	MISSION	96.7	0.914	1.467	105.8
2009	MISSION	89.1	0.741	0.893	120.3
2010	MISSION	105.2	0.932	0.728	112.8
2011	MISSION	67.6	0.795	0.692	85.1
5-Yr Ave	07-11 Avg	88.1	0.842	0.960	104.6
2012	MISSION	92.2	0.916	0.871	100.7
	% Difference	4.6%	8.8%	-9.3%	-3.7%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	NORTH BAY	117.0	1.088	1.782	107.6
2008	NORTH BAY	163.3	1.200	1.765	136.0
2009	NORTH BAY	140.2	1.153	0.944	121.6
2010	NORTH BAY	129.9	1.067	1.346	121.8
2011	NORTH BAY	200.4	1.329	1.222	150.8
5-Yr Ave	07-11 Avg	150.2	1.167	1.412	127.6
2012	NORTH BAY	137.6	0.910	1.949	151.1
	% Difference	-8.4%	-22.0%	38.1%	18.5%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	NORTH VALLEY	265.2	1.581	2.130	167.8
2008	NORTH VALLEY	317.0	1.683	3.460	188.4
2009	NORTH VALLEY	217.4	1.352	3.097	160.8
2010	NORTH VALLEY	222.1	1.341	1.893	165.7
2011	NORTH VALLEY	622.1	2.022	2.134	307.6
5-Yr Ave	07-11 Avg	328.8	1.596	2.543	198.1
2012	NORTH VALLEY	511.8	1.876	2.948	272.9
	% Difference	55.7%	17.6%	15.9%	37.8%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	PENINSULA	80.0	0.754	1.061	106.1
2008	PENINSULA	125.9	1.202	1.795	104.7
2009	PENINSULA	93.5	0.934	0.798	100.2
2010	PENINSULA	121.3	1.399	1.058	86.7
2011	PENINSULA	109.6	1.179	0.944	93.0
5-Yr Ave	07-11 Avg	106.1	1.094	1.131	98.1
2012	PENINSULA	98.0	1.133	1.708	86.5
	% Difference	-7.6%	3.6%	51.0%	-11.9%

Pacific Gas and Electric
Division Reliability Indices
2007-2012
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	SACRAMENTO	122.7	0.857	1.162	143.2
2008	SACRAMENTO	180.9	1.168	2.072	154.9
2009	SACRAMENTO	154.2	1.214	1.774	127.0
2010	SACRAMENTO	135.9	0.967	1.281	140.5
2011	SACRAMENTO	169.8	1.154	1.910	147.1
5-Yr Ave	07-11 Avg	152.7	1.072	1.640	142.5
2012	SACRAMENTO	159.3	1.407	1.904	113.2
	% Difference	4.3%	31.3%	16.1%	-20.6%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	SAN FRANCISCO	99.1	1.027	0.386	96.5
2008	SAN FRANCISCO	56.2	0.678	0.271	82.9
2009	SAN FRANCISCO	67.1	0.786	0.096	85.3
2010	SAN FRANCISCO	46.6	0.609	0.077	76.5
2011	SAN FRANCISCO	45.9	0.553	0.215	83.0
5-Yr Ave	07-11 Avg	63.0	0.731	0.209	84.8
2012	SAN FRANCISCO	48.4	0.603	1.042	80.3
	% Difference	-23.2%	-17.5%	398.6%	-5.4%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	SAN JOSE	99.2	0.944	1.009	105.0
2008	SAN JOSE	91.0	0.794	1.078	114.6
2009	SAN JOSE	76.6	0.779	0.801	98.3
2010	SAN JOSE	70.8	0.765	0.543	92.6
2011	SAN JOSE	111.3	0.965	0.807	115.3
5-Yr Ave	07-11 Avg	89.8	0.849	0.848	105.2
2012	SAN JOSE	82.9	0.822	0.985	100.9
	% Difference	-7.7%	-3.2%	16.2%	-4.1%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	SIERRA	196.7	1.431	1.684	137.5
2008	SIERRA	243.0	1.630	1.516	149.1
2009	SIERRA	539.7	1.644	1.434	328.4
2010	SIERRA	480.9	1.528	1.214	314.7
2011	SIERRA	808.0	1.948	2.552	414.7
5-Yr Ave	07-11 Avg	453.7	1.636	1.680	268.9
2012	SIERRA	214.7	1.372	3.139	156.4
	% Difference	-52.7%	-16.1%	86.8%	-41.8%

Pacific Gas and Electric
Division Reliability Indices
2007-2012
(Excluding Major Events)

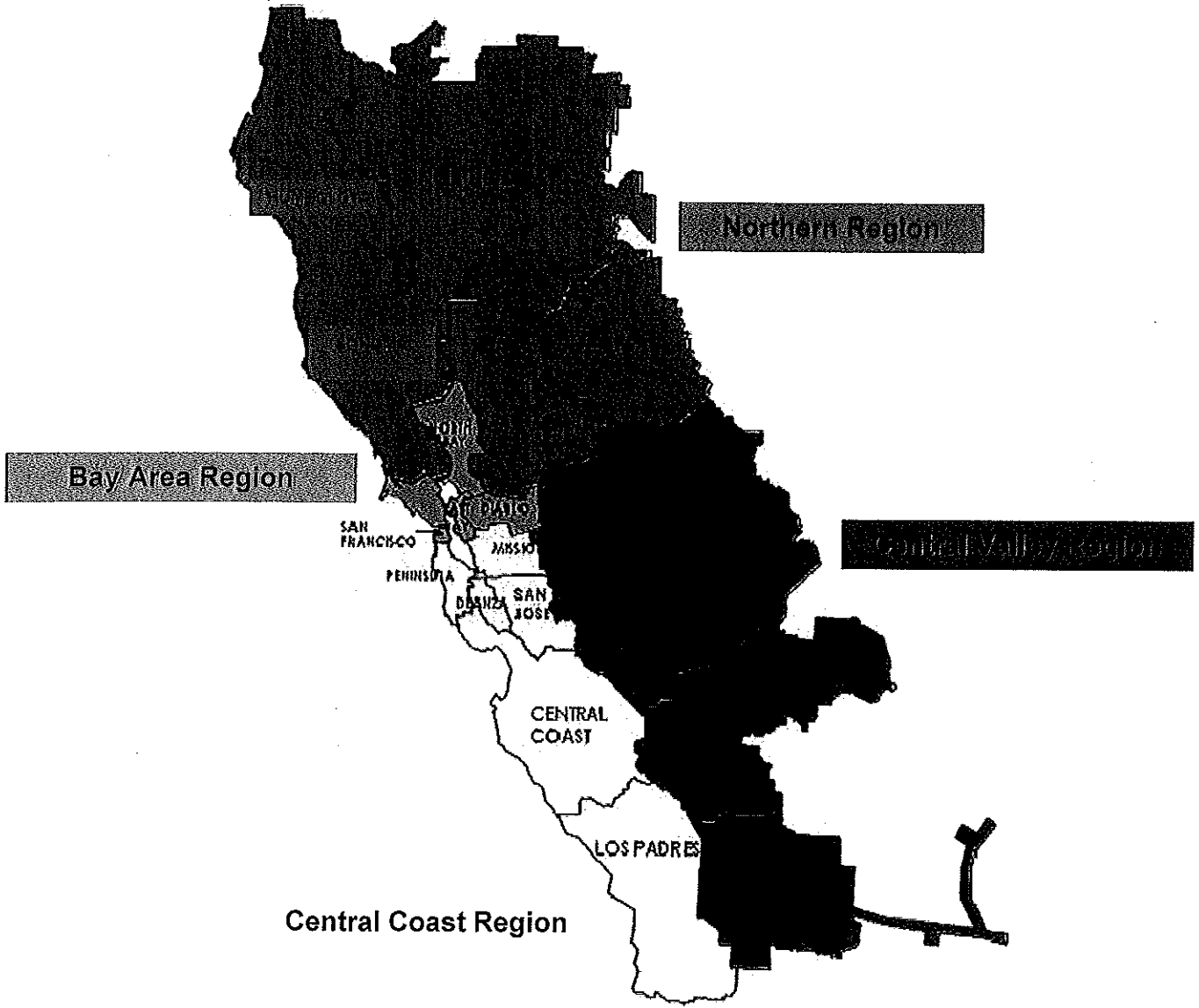
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	SONOMA	157.6	1.226	1.768	128.5
2008	SONOMA	155.2	1.104	0.922	140.5
2009	SONOMA	167.8	1.205	1.458	139.2
2010	SONOMA	159.5	1.169	0.833	136.4
2011	SONOMA	117.3	0.933	1.393	125.7
5-Yr Ave	07-11 Avg	151.5	1.127	1.275	134.1
2012	SONOMA	204.7	1.097	2.030	186.6
	% Difference	35.1%	-2.7%	59.2%	39.2%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	STOCKTON	183.6	1.636	1.827	112.2
2008	STOCKTON	167.8	1.155	1.800	145.2
2009	STOCKTON	255.5	1.469	2.935	173.9
2010	STOCKTON	283.6	1.395	1.488	203.3
2011	STOCKTON	471.9	1.754	1.188	269.0
5-Yr Ave	07-11 Avg	272.5	1.482	1.848	180.7
2012	STOCKTON	163.0	1.156	2.099	141.0
	% Difference	-40.2%	-22.0%	13.6%	-22.0%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	YOSEMITE	226.5	1.606	1.412	141.1
2008	YOSEMITE	290.4	1.616	1.561	179.7
2009	YOSEMITE	223.9	1.375	1.655	162.9
2010	YOSEMITE	424.0	1.662	2.671	255.1
2011	YOSEMITE	598.6	1.699	2.406	352.2
5-Yr Ave	07-11 Avg	352.7	1.592	1.941	218.2
2012	YOSEMITE	145.8	1.294	4.176	112.6
	% Difference	-58.7%	-18.7%	115.1%	-48.4%
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2007	SYSTEM	159.9	1.249	1.565	128.0
2008	SYSTEM	166.7	1.254	1.634	132.9
2009	SYSTEM	163.1	1.193	1.474	136.7
2010	SYSTEM	168.6	1.167	1.311	144.4
2011	SYSTEM	236.0	1.195	1.434	197.6
5-Yr Ave	07-11 Avg	178.9	1.212	1.484	147.9
2012	SYSTEM	138.9	1.118	1.918	124.3
	% Difference	-22.3%	-7.7%	29.3%	-16.0%

SECTION 5

Attachment 2

PG&E Service Territory Map

PG&E Service Territory



SECTION 6

Attachment 3

Summary list of Excludable Major Events per D. 96-09-045

Date	Description	Reason
1/1/2011-1/4/2011	A system of strong storms that began in December 2010 carried through into the beginning of 2011 bringing heavy winds and rain.	Declared State of Emergency
3/17/2011 -3/22/2011	A series of cold and powerful storms moved through the Service Area with the majority of outages resulting from low snow and gusty winds. The bulk of outage activity occurred overnight Sat 19 th to Sun 20 th as strong southeasterly wind gusts were observed in many locations (SF Apt 45 mph, Stockton 44 mph, Redding 45 mph, Bakersfield 40 mph). Excessive low elevation snowfall caused significant outage activity. Yosemite Division was hard hit with low snow (snow totals - 38" reported at 4200' above Oakhurst)	Declared State of Emergency
3/24/2011 – 3/27/2011	After a short respite from inclement weather, another strong and cold storm moved into the Service Area on March 24 th . Once again, strong southerly wind gusts were observed (SF Apt 38 mph, Oakland 37 mph). Low elevation snow was the main adverse weather issue with Sierra, North Valley, Stockton, and Yosemite Divisions hard hit with low snow. (snow totals - 13" in Shingletown, 25" at 3700' along Highway 88, 34" at the 4200' above Oakhurst)	Declared State of Emergency
1/18/2010 – 1/24/2010	A strong jet stream developed over the Eastern Pacific, which spawned a series of outage producing weather events that included: - Three impulses of strong winds; gust above 50 mph each day (Jan 18, 19, 20) - Periods of moderate to heavy rainfall (Jan 18, 19, 20, 21) - Bands of thundershower activity (several thousand strikes Jan 18-21) - Heavy snowfall at low elevations of the Sierra Nevada (Jan 21, 22)	10% customer criteria
10/13/2009 – 10/14/2009	A strong early season storm affected the entire service area with many stations reporting wind gusts over 50 mph (57 mph at Ft. Funston (SF), 56 mph at Fairfield, 55 mph at Oroville, 51 mph at Monterey). Single day rainfall totals ranged between two and five inches at many locations (4.54 in. at Watsonville, 4.27 in. at Fairfield, and 3.66 in. at Napa). National Weather Service records indicate this storm was the strongest October rain and wind event since 1962.	10% customer criteria
1/3/2008 – 1/6/2008	The strongest storm system since December 1995 affected the entire service area on Jan 4. Wind gusts exceeded 65 mph at many low elevation sites throughout the service area (Redding 70 mph, Beale AFB 69 mph, Sacramento Apt. 66 mph, Pt San Pablo 83 mph), with some coastal hills and foothill sites gusting to over 80 mph (Los Gatos, elev. 2000 ft. 105 mph, Big Rock, Marin Co. elev. 1500 ft. 83 mph). Rainfall totals on Jan 4 ranged up to 4 inches with storm totals above 6 inches in the North Bay counties. Multiple lightning strikes were reported on Jan 4 and 5	10% customer criteria
12/26/06 – 12/28/06	A strong storm moved across the service area on Dec 26. Strong post-frontal winds occurred Dec 27-28.	10% customer criteria
07/21/06 – 07/27/06	A severe and long lasting heat wave affected the service area. In many locations, three day average temperatures were the highest recorded in over 50 years.	Declared State of Emergency
04/04/06 – 04/05/06	A surge of subtropical moisture moved over the service area resulting in periods of heavy rainfall and moderately gusty winds in the 20-35 mph range.	Declared State of Emergency
03/09/06 – 03/14/06	A cold air mass brought periods of rain, wind, thundershowers and low elevation snow to the service area.	Declared State of Emergency
03/02/06 – 03/05/06	During this four day period several storms crossed through the service territory. Strong winds, rain and thunderstorms occurred on Mar 3, especially affecting the San Joaquin Valley.	Declared State of Emergency
02/26/06 - 02/28/06	A strong storm occurred on February 27-28. Bay Area wind gusts generally ranged from 45 to 70 mph; SF Airport reported a wind gust of 71 mph. Gusts to 50 mph were reported in many other parts of the service area.	Declared State of Emergency
01/03/2006 - 01/05/2006 ----- 12/30/2005 - 01/02/2006	A series of strong storms struck the service area The Dec 30 event was strongest in the north. The Dec 31 event affected the entire service area. An additional one to three inches of rain fell across northern and central California on Dec 31.	Declared State of Emergency ----- 10% customer criteria
12/18/2005 - 12/20/2005	A strong weather front accompanied by heavy rain and strong gusty winds targeted the central portion of the service area. Many coastal locations received between one to three inches of rain.	Declared State of Emergency
08/11/2004 - 08/16/2004	North Valley Division wildfires.	Declared State of Emergency
12/22/2003	Los Padres Division earthquake.	Declared State of Emergency
12/13/2002 - 12/21/2002	Very powerful early-season storm with gusty winds and heavy rains.	10% customer criteria
11/07/2002 - 11/08/2002	Very powerful early-season storm with gusty winds and heavy rains.	10% customer criteria

SECTION 7

Attachment 4

System Indices for the Last 10 Years (2003-2012) Based in IEEE 1366

Table A - IEEE 1366 Method – T&D System

(Excludes 2.5 Beta Days, Iso, Planned and Transformer Only Outages)				
Year	SAIDI	SAIFI	MAIFI	CAIDI
2003	162.5	1.288	1.745	126.2
2004	152.2	1.179	1.568	129.1
2005	157.0	1.266	1.663	124.0
2006	168.4	1.349	1.573	124.8
2007	142.3	1.199	1.516	118.7
2008	153.4	1.197	1.592	128.1
2009	131.3	1.112	1.391	118.1
2010	127.7	1.097	1.252	116.4
2011	107.4	0.960	1.169	111.9
2012	108.9	1.025	1.797	106.2

Table B - IEEE 1366 Method – Distribution System

(Excludes 2.5 Beta Days, Iso, Planned and Transformer Only Outages)			
Year	SAIDI	SAIFI	CAIDI
2003	147.6	1.173	125.9
2004	140.9	1.074	131.2
2005	137.9	1.120	123.1
2006	151.6	1.196	126.8
2007	128.8	1.089	118.3
2008	137.4	1.101	124.8
2009	121.4	1.027	118.2
2010	115.8	1.000	115.8
2011	96.1	0.863	111.4
2012	98.7	0.932	105.8

Table C - IEEE 1366 Method – Transmission System

(Excludes 2.5 Beta Days, Iso, Planned and Transformer Only Outages)			
Year	SAIDI	SAIFI	CAIDI
2003	14.9	0.115	129.3
2004	11.0	0.104	106.5
2005	19.1	0.146	130.5
2006	16.7	0.153	109.5
2007	13.5	0.109	123.3
2008	15.8	0.096	163.7
2009	9.9	0.085	117.3
2010	11.9	0.097	123.7
2011	11.2	0.095	117.7
2012	10.2	0.092	110.4

The totals shown in Tables B and C may not exactly match the values in Table A due to the following:

- Generation related outages are included in the first table but not in Tables B and C;
- There are database limitations related to the exclusion process when separating the outage data associated with the transmission and distribution systems.

The MAIFI information is not included in Tables B and C since the existing automatic recording (EON) devices do not distinguish between the two systems.

SECTION 8

Attachment 5

Historical (2002-2011) Outage Information from Prior Reports (the noted reference numbers are from the earlier reports)

A. Ten Largest Outage Events

**B. Histograms of Events Meeting the CPUC Definition of an
Excludable Major Event**

C. Customers Experiencing >12 Sustained Outages

SECTION 8

Attachment 5

SECTION A

Ten Largest Outage Events

Table 5 - Ten Largest 2011 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	A series of cold and powerful storms moved through the Service Area with the majority of outages resulting from low snow and gusty winds. The bulk of outage activity occurred overnight Sat 19 th to Sun 20 th as strong southeasterly wind gusts were observed in many locations (SF Apt 45 mph, Stockton 44 mph, Redding 45 mph, Bakersfield 40 mph). Excessive low elevation snowfall caused significant outage activity. Yosemite Division was hard hit with low snow (snow totals - 38" reported at 4200' above Oakhurst)	Mar 17 - 22	581,949	256	1,839**	Y-Partial (See Table 4)
2	After a short respite from inclement weather, another strong and cold storm moved into the Service Area on March 24 th . Once again, strong southerly wind gusts were observed (SF Apt 38 mph, Oakland 37 mph). Low elevation snow was the main adverse weather issue with Sierra, North Valley, Stockton, and Yosemite Divisions hard hit with low snow. (snow totals - 13" in Shingletown, 25" at 3700' along Highway 88, 34" at the 4200' above Oakhurst)	Mar 24 - 27	464,767	504	1,839**	Y-Partial (See Table 4)
3	A series of cold storms moved across the Service Area starting Valentines day until Feb 19. On the 17 th very cold air filtered into the region lowering snow levels enough to create low snow related outages across the Coast Ranges of Humboldt Divisions, and down the entire Sierra Nevada foothills. The hardest hit divisions were Humboldt, Yosemite, and Sierra. (snow totals - 14" in Shingletown, 38" at 3700' on Highway 88, 12" at 2600' in Humboldt County). Snow recorded down to 500 feet in Humboldt.	Feb 15 - 19	357,802	151		N
4	High pressure in the Great Basin and low pressure off the southern California coast set the stage for strongest northeast wind event to hit the Service Area in the last 20 years. Gusts up to 50 mph were common in the Sierra with the highest gust of 94 mph recorded on Mt. Elizabeth in the Yosemite division. Winds were quite strong in the Valley as well (Stockton 52 mph, Redding 40 mph, Fresno 36 mph)	Nov 30 - Dec 1	325,942	131		N
5	A strong and cold storm affected the entire Service Area with low snow falling in the Northern Region and gusty southerly winds and heavy rains further east and south. The hardest hit divisions were Humboldt, North Valley, and Sierra. (snow totals - 18" in Shingletown, 20" in Susanville, 19" in Grass Valley). Snow recorded down to 500 feet in Humboldt.	Feb 24 - 25	187,851	152		N
6	An early season storm moved through the Service Area bringing moderate southerly winds and heavy precipitation rates. In Ukiah, more than a half inch of rain fell within one hour in the early morning. The Central Valley Region experienced the most outages. These were mainly pole fires/flashover caused by the first rain to fall in the area after months of prolonged dry weather.	Oct 5	100,357	24		N
7	Widespread thunderstorm activity broke out across the southern part of the Service Area early in the morning with the biggest impacts in Fresno and Kern divisions. The Bakersfield area in Kern was hit particularly hard by lightning, with Kern Division recording 3833 lightning strikes for the day.	Sept 10	77,443	69		N
8	A late season cold storm moved through the Service Area with low snow outage conditions across divisions in the Sierra Nevada, especially the Sierra Division. (8" of snow at 3700' along Highway 88) Thunderstorms and associated lightning also broke out across the Central Valley. Impacts were minimal in the Bay Area and Central Coast Regions.	May 15	62,863	30		N
9	A non-weather related outage day with maximum temperatures along the Central Valley in the mid 80s. The outage count was only slightly above average for a June day; however, a large number of customers in the East Bay were affected by two distribution substation outages.	Jun 12	50,028	15		N
10	The first warm day of the spring was observed in many areas. San Jose had a high of 84. This could have contributed to the above average outage total. No other adverse weather was reported. The largest impacts were recorded in the San Francisco and San Jose Divisions.	Apr 1	44,177	6		N

* Note: Values exclude single distribution line transformer and planned outages.

** During the course of the March 17-27, 2011 storms, approximately 1,839 PG&E Operations, Maintenance and Construction (OM&C) employees responded. These employees included electric and gas construction crews, troublemen, meter technicians, clerical staff, gas and electric estimators and meter readers. Resources were dispatched and moved from lesser impacted areas to the more heavily impacted areas. In addition to PG&E personnel, 110 vegetation crews, 10 contract crews (approximately 200 individuals), and 36 mutual aid crews (approximately 175 individuals) were utilized to supplement existing resources.

Table 4 - Ten Largest 2010 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	A strong jet stream developed over the Eastern Pacific, which spawned a series of outage producing weather events that included: - Three impulses of strong winds; gust above 50 mph each day (Jan 18, 19, 20) - Periods of moderate to heavy rainfall (Jan 18, 19, 20, 21) - Bands of thundershower activity (several thousand strikes Jan 18-21) - Heavy snowfall at low elevations of the Sierra Nevada (Jan 21, 22)	Jan 18-24	1,169,513	497	3,830 **	Y
2	A strong storm system with several impulses moved through the entire Service Area during the Dec 17 – 20 period bringing gusty winds and heavy rain. Wind gusts during the period: 43 mph at Stockton, 43 mph at Salinas, 46 mph at SFO, 43 at Red Bluff.	Dec 17-20	215,116	120		N
3	A series of cold storms brought significant snow to low elevations in the Sierra Nevada foothills. The snow came early in the season, when deciduous trees still retained most of their leaves. Excessive snow loading occurred on trees causing large limbs to break off and fall onto power lines. Snowfall amounts ranged from near 1 foot at the 3000' elevation, to several feet above 5000'. This storm produced the most low elevations snow in November in the last 15 years.	Nov 20-21	215,245	186		N
4	Storm system with strong south winds on Dec 28 (gusts to 47 mph at Marysville, 41mph at Stockton, 46 mph SFO) followed by strong northwest winds on Dec 29 (gusts to 46 mph at San Jose, 41 mph at Stockton, 43 at Bakersfield, 46 mph at SFO).	Dec 28-29	180,370	47		N
5	A late season storm brought rain, thunderstorms, and wind. Over 500 lightning strikes were recorded. The storm was particularly strong along the Central Coast and in the southern San Joaquin Valley. Reported wind gusts: 45 mph at Salinas, 46 mph at Santa Maria, 46 mph at Bakersfield 46.	Apr 11-12	122,050	73		N
6	Early season storm brought thunderstorms to Northern Region (over 1000 strikes recorded) along with rain to other parts of the Service Area. In many cases, this was the first rain of the season causing flashover outages.	Sep 8-10	114,402	60		N
7	An early season storm brought high winds and heavy rain to primarily the Northern Region. Redding recorded a peak wind gust of 49 mph. Santa Rosa recorded 4.75" of rainfall.	Oct 24	111,522	43		N
8	Storm system swept across the Service Area bringing rain and gusty winds. Reported wind gusts: 41 mph at Salinas, 41 mph at Bakersfield.	Dec 4-5	98,041	21		N
9	Heat wave conditions resulted in the hottest two days of the summer. Maximum temperatures exceeded 110 in portions of the Central Valley (111 at Bakersfield on 8/25). Maximum temperatures between 100 and 110 were reported both days at many coastal valley areas (109 at Ukiah on 8/25, 107 at Santa Rosa on 8/24, 105 at Livermore on 8/25).	Aug 24-25	97,616	82		N
10	Heat wave affected the service area, on both days Central Valley maximum temperatures ranged between 100 and 110, maximum temperatures above 100 were reported in coastal valleys on 6/27.	Jun 27-28	87,751	38		N

Note:

* Note: Values exclude single distribution line transformer and planned outages

** During the course of the January 18, 2010 Storm approximately 3,830 PG&E Operations, Maintenance and Construction (OM&C) employees responded. These employees included electric and gas construction crews, troublemen, gas service representatives, meter technicians, clerical staff, gas and electric estimators and meter readers. Resources were dispatched and moved from lesser impacted areas to the more heavily impacted areas. In addition to PG&E personnel, 1000 vegetation workers and 60 contract crews (approximately 360 individuals) were utilized to supplement existing resources.

Table 4 - Ten Largest 2009 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	A strong early season storm affected the entire service area with many stations reporting wind gusts over 50 mph (57 mph at Ft. Funston (SF), 56 mph at Fairfield, 55 mph at Oroville, 51 mph at Monterey). Single day rainfall totals ranged between two and five inches at many locations (4.54 in. at Watsonville, 4.27 in. at Fairfield, and 3.66 in. at Napa). National Weather Service records indicate this storm was the strongest October rain and wind event since 1962.	10/13-10/14	617,589	244**	4,400 ***	Y
2	A strong cold front produced significant snowfall on Feb. 13 in the 1500-3000 ft. range of the northern and central Sierra foothills (up to 2 feet of snow at 3000 ft. and @ 1 foot at 2000 ft). A second storm followed on Feb.15 producing widespread heavy rain and strong wind gusts to the entire Service Area (67 mph at Valley Ford, 59 mph at Oroville, 50 mph at Redding, and Ft. Funston (SF), 47 mph at Salinas, 43 mph at San Luis Obispo. A third storm on Feb 16 delivered additional rainfall and wind gusts in the 30 to 40 mph range at several locations.	2/13-2/17	340,582	107	Not Requested	N
3	A large cluster of thunderstorms produced widespread lightning activity in the Bay Area and Sacramento Valley on Sep. 12. The lightning activity was followed by a weak weather front the next day that produced the first light rain of the season over much Northern California resulting in flashover related outages.	9/12-9/14	190,671	92	Not Requested	N
4	A strong cold front produced significant snowfall at the 1000-3000 ft. range of the Sierra foothills (up to 2 feet of snow was observed at 3000 ft., @ 1 foot at 1500 ft.) Light snow was reported at locations in the Central Valley.	12/7	147,630	113	Not Requested	N
5	Strong northerly winds developed across the entire Service Area with the gusts in the 45 to 55 mph range in the Bay Area and Sacramento Valley (52 mph at Fairfield, 49 mph at Sacramento, 45 mph at Red Bluff)	11/28	119,504	84	Not Requested	N
6	Strong north to northwest winds in the 40 to 60 mph range followed the passage of a weak weather front through the service area (58 mph at Ft. Funston (SF), 58 mph at SF Airport, 50 mph at San Carlos, 46 mph at Stockton)	4/14	116,406	45	Not Requested	N
7	An area of low pressure produced a large outbreak of thunderstorms with widespread lightning overnight on Jun. 3, continuing into the morning of Jun. 4.	6/3-6/4	98,187	38	Not Requested	N
8	Strong north to northwest winds in the 45 to 55 mph range were recorded throughout the Sacramento and San Joaquin Valleys following the passage of a weak weather front (52 mph at Merced, 49 mph at Stockton, 47 mph at Modesto and Madera, 46 mph at Red Bluff, 45 mph at Fresno).	10/27	70,901	20	Not Requested	N
9	A winter storm accompanied by periods of moderate to heavy rainfall and scattered thundershower activity crossed the service area. Rainfall totals of up to 2 inches were reported.	12/12	54,111	41	Not Requested	N
10	Widespread thunderstorm activity resulted in several hundred lightning strikes in Areas 4, 5, 6 and 7.	5/28	52,705	22	Not Requested	N

Note:

* Values exclude single distribution line transformer and planned outages

** This duration was due to the lack of access caused by flooding in the Stockton area. Access was granted after waters receded. Work was the completed and service was restored to the six customers remaining out of service.

*** Approximately 4,400 PG&E Operations, Maintenance & Construction (OM&C) employees responded. In addition to PG&E personnel, 400 vegetation workers and 42 contract crews (approximately 210 individuals) were utilized to supplement existing resources.

Table 4 - Ten Largest 2008 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	Strongest storm system since December 1995 affected the entire service area on Jan 4. Wind gusts exceeded 65 mph at many low elevation sites throughout the service area (Redding 70 mph, Beale AFB 69 mph, Sacramento Apt. 66 mph, Pt San Pablo 83 mph), with some coastal hills and foothill sites gusting to over 80 mph (Los Gatos, elev. 2000 ft. 105 mph, Big Rock, Marin Co. elev. 1500 ft. 83 mph). Rainfall totals on Jan 4 ranged up to 4 inches with storm totals above 6 inches in the North Bay counties. Multiple lightning strikes were reported on Jan 4 and 5.	1/3 – 1/6	1,631,765	290	7,130 **	Y
2	A series of cold winter storms crossed the state. The first system (Jan 24-25) delivered gusty winds (generally in the 30 to 50 mph range), up to 2 inches of rain and snow below 2000 ft. A second system focused on the southern half of the service territory brought additional rain and thundershower activity along with even gustier winds (Santa Maria 67 mph, Bakersfield 49 mph).	1/24 – 1/27	303,168	172	Not Requested	N
3	A storm system with wind gusts in the 25 to 40 mph range crossed the state. Most locations reported under one inch of rain with a few coastal stations reaching two inches total.	10/31 – 11/1	189,811	50	Not Requested	N
4	The first rains of the winter season were accompanied by winds generally gusting from 25 to 35 mph (Red Bluff 44 mph). A large number of flashover incidents were likely triggered by the combination of light rain and power lines heavily sooted after the widespread summer season wildfires.	10/3 – 10/4	147,703	65	Not Requested	N
5	Gusty winds with periods of moderate rain accompanied a weather system that crossed the state. Wind gusts were generally in the 30 to 50 mph range (SF Airport 47 mph, Stockton 47 mph, Merced 45 mph).	2/2 – 2/3	121,865	65	Not Requested	N
6	Gusty winds from this storm were strongest in the southern half of the service area. Gusts between 50 and 55 mph were reported at SF Airport, Salinas, Santa Maria, Red Bluff and Bakersfield.	2/23 – 2/24	113,086	101	Not Requested	N
7	A weather front brought gusty winds and periods of moderate to heavy rain to the state. Post-frontal west to northwest wind gusts were strongest in the Bay Area (SF Apt 54 mph, Hayward 63 mph, Oakland 47 mph, Salinas 51 mph)	12/25	111,134	102	Not Requested	N
8	Gusty north winds generally in the 25 to 35 mph range were reported in the north. San Joaquin and Central Coast winds gusted from 30 to over 50 mph (Santa Maria 41 mph, Stockton 45 mph, Madera 52 mph, Merced 47 mph)	5/22	105,635	102	Not Requested	N
9	Gusty north winds developed on the evening of Feb 13 and continued through Feb 14. Winds were generally in the 30 to 45 mph range, with strongest gusts in the Central Valley (Redding 48 mph, Marysville 48 mph, Sacramento 47 mph)	2/13 – 2/14	98,788	47	Not Requested	N
10	Gusty north winds between 20 and 35 mph resulted in a record breaking early season heat wave. Bay Area and Central Valley temperatures ranged from 100 to 105F	5/15	84,659	28	Not Requested	N

Note:

* Values exclude single distribution line transformer and planned outages

** Approximately 6,000 PG&E Operations, Maintenance & Construction (OM&C) employees responded. In addition to PG&E personnel, 300-350 vegetation crews (approximately 700 individuals), 70 contract crews (approximately 450 individuals) and 28 mutual assistance crews (approximately 170 individuals) from Southern California Edison (SCE), San Diego Gas and Electric (SDG&E), City of Gridley, City of Redding, and Sierra Pacific Power were utilized to supplement existing resources

Table 4 - Ten Largest 2007 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	Gusty winds and rain Feb 26 and 27. Peak wind speeds of 30-45 mph Bay Area (Oakland 40 mph, SF approximately 43 mph). Interior valley reported 25-40 mph gusts, strongest in the San Joaquin Valley (Fresno 38 mph). Rainfall generally below one inch. Snow levels lowered to 2000 ft as far south as the San Joaquin Valley on Feb 27.	2/26 - 2/28	266,764	214 **	Not Requested	N
2	Heat wave centered around July 5. Maximums between 105-115 degrees in the interior valleys, 95-110 degrees in the coastal valleys.	7/4 - 7/7	172,778	20	Not Requested	N
3	Widespread lightning with subtropical rain. Lightning all three days but extensive strikes on Aug 30 over Areas 3 and 4	8/29 - 8/31	149,883	75	Not Requested	N
4	Early summer hot temperatures in the interior; maximums 100-105 degrees in the Central Valley, upper 80's to low 100's in the coastal valleys. North winds 20-25 mph	6/14 - 6/16	137,977	27	Not Requested	N
5	Light rain across Central and North Areas. Winds generally below 25 mph. Lightning on Sep 21 in the evening continuing through Sep 22 mainly in San Joaquin Valley and foothills. Many outages reported due to insulator flashover resulting from light rain.	9/22	100,606	33	Not Requested	N
6	Rain, gusty winds and scattered thundershowers Feb 22. Peak winds at Redding - 51 mph on the Feb 21 and 44 mph on Feb 22nd. Bay Area gusts from 25-35 mph (Oakland 37 mph) on the Feb 22 nd . Over 2 inches of rain in Eureka, less than one inch most other locations	2/22 - 2/23	96,420	79	Not Requested	N
7	Light rain far north, winds below 25 mph. Cold morning temperatures.	1/16	91,695	24	Not Requested	N
8	Thunderstorms / lightning in the Sierra foothills of Area 4 and 5. Afternoon temperatures between 95-100 degrees in the Central Valley	7/24	70,602	29	Not Requested	N
9	Light rain across the Service Area. Many outages reported due to insulator flashover resulting from light rain.	10/10	62,434	34	Not Requested	N
10	Moderately strong winds occurred across the Central and Northern Service Areas with gusts up to 50 mph.	12/27	59,594	20	Not Requested	N

* Note: Values exclude single distribution line transformer and planned outages

** Note: Reflects an outage at two customer locations in a remote area that experiences deep snow with limited access.

Table 5 - Ten Largest 2006 Outage Events

Rank	Description	Date	Number of Customers Affected	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	A severe and long lasting heat wave affected the service area. In many locations three day average temperatures were the highest recorded in over 50 years. Consecutive days with maximum temperatures over 110 F were recorded throughout the Central Valley, and many coastal valleys reported consecutive days with maximum temperatures over 105 F. Sacramento set an all time record of 11 days in a row with maximum temperatures over 100 F. An unusual feature of this heat wave was high nighttime temperatures. Sacramento, San Jose and Fresno set records for the highest minimum temperatures ever recorded.	7/21 - 7/27	651,217	119	Not Requested	Y See Table 4
2	A strong storm moved across the service area on Dec 26. Strong post-frontal winds occurred Dec 27-28. Southerly winds gusted from 45 to 55 mph in the Sacramento Valley and Bay Area on Dec 26 th , accompanied by rainfall totals ranging from ½ to 3 inches. Gusty west to northwest winds were recorded after the front passed on Dec 27 th . Bay Area wind gusts generally ranged from 45-60 mph, and gusts in the 35 to 50 mph range were reported in both northern and southern portions of the service area. North to northwesterly wind gusts in the 25 to 40 mph range continued into the afternoon of Dec 28 th	12/26-12/28	528,496	125	2460	Y See Table 4
3	The storm of Jan 1-2 was a continuation of a series of storms that began at the end of the 2005. Gusts from 45 to over 60 mph were common in the Sacramento Valley and Bay Area; 35 to 55 mph along the Central Coast, and 30 to 45 mph in the San Joaquin Valley. Rainfall amounts ranging from ½ to 2 inches fell on grounds that had been saturated by a series of late December storms.	1/1 - 1/5 (12/30/05 - 1/5/06)*	504,072 (1,101,718)	129 (155)	3522**	Y See Table 4
4	A strong storm occurred on February 27-28. Bay Area wind gusts generally ranged from 45 to 70 mph; SF Airport reported a wind gust of 71 mph. Gusts to 50 mph were reported in many other parts of the service area. Moderate to heavy rain accompanied the strong winds with up to four inches of rain reported along the north coast and in the northern interior. Bands of thunderstorms rolled through the service area on Feb 28.	2/26 - 2/28	331,813	45	Not Requested	Y See Table 4
5	Strong high pressure resulted in heat wave conditions over most of the service area. On June 22, temperatures ranged from 100 to 110 throughout the Central Valley, Bay Area and coastal valley temperatures ranged from 95 to 105. On Jun 23, a weak sea breeze cooled off the Bay Area slightly, but interior valley temperatures continued to climb resulting in readings generally between 105 and 115 through June 25 (117 @ Red Bluff on Jun 25)	6/22 - 6/25	164,582	31	Not Requested	N
6	The first significant wind and rain storm of the winter occurred during the Dec 8-10 period. Wind gusts generally ranged from 30 to 40 mph on Dec 8 and 9 (45 mph @ SF Apt, 45 mph @ Hanford); and from 25-35 mph on Dec 10 (38 mph @ Oakland, 37 mph @ Redding). Rainfall totals were generally under ½ inch on Dec 8 (0.58 at Santa Rosa), between ¼ and ¾ inch on Dec 9 (0.99 inches at Sacramento); and under ¼ inch on Dec 10. Thunderstorms were reported in the Sacramento Valley on Dec 9.	12/8 - 12/10	146,770	39	Not Requested	N
7	A cold air mass brought periods of rain, wind, thundershowers and low elevation snow to the service area. On Mar 9, winds gusts ranged from 25 to 45 mph through most of the service area (46 mph @ SF Apt). Lightning mainly confined to coast areas on Mar 10, and coastal areas and San Joaquin Valley on Mar 11. Large accumulations of low elevation snow were reported in the foothills of the Central (10 inches at Angels Camp) and Southern Sierra (14 inches at 1500 ft.). In the coastal mountains between six and 12 inches was reported.	3/9 - 3/14	138,997	94	Not Requested	Y See Table 4
8	During this four day period, several storms crossed through the service territory. Strong winds, rain and thunderstorms occurred on March 3, especially affecting the San Joaquin Valley. Fresno reported a wind gust of 41 mph. Wind gusts above 40 mph were recorded in Humboldt County on March 4. The final weather front of this series occurred on Mar 5. Peak winds gusted to 55 mph along the north coast, and an additional one to three inches of rain was reported in parts of the Bay Area, North Coast and Sacramento Valley	3/02 - 3/05	113,235	66	Not Requested	Y See Table 4
9	A surge of subtropical moisture moved over the service area resulting in periods of heavy rainfall (1.14 inches at Sacramento, 1.02 inches at Stockton) and moderately gusty winds in the 20-35 mph range. Lightning activity was strong in the northern and central San Joaquin Valley.	4/04 - 4/05	102,052	31	Not Requested	Y See Table 4
10	A weather front produced 40-45 mph wind gusts in the northern Sacramento Valley, 10 mph gusts elsewhere. Rainfall totals ranged from ¼ to one inch along the north coast and northern Sacramento Valley, less than ¼ inch elsewhere.	1/28	85,089	73	Not Requested	N

Note: Values exclude single distribution line transformer and planned outages. The events listed as CPUC Major Events only include the outages for excludable counties. otherwise the events include the system values. * The values in parenthesis reflect the totals for the entire event from Dec 30, 2005 to Jan 5, 2006 as noted in Section 1.

**Approximately 3,300 PG&E Operations, Maintenance & Construction (OM&C) employees responded. In addition to PG&E personnel, a total of 27 Contract Crews (approximately 142 individuals) and 20 Mutual Assistance Crews (approximately 80 individuals) from Southern California Edison (SCE) were utilized to supplement existing resources.

Table 5 - Ten Largest 2005 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	A series of strong storms struck the service area (these storms were preceded by several wet events that affected the North Bay and North Coast). The Dec 30 event was strongest in the north. The Eureka NWS office reported 90+ mph winds in the Humboldt Bay area and widespread gusts in excess of 70 mph. Northern Sacramento Valley locations reported strong wind gusts; e.g. 53 mph at Redding. North Coast and North Bay rainfall amounts were in the 3 to 5 inch range. The Dec 31 event affected the entire service area. Wind gusts above 50 mph were recorded in all areas except the Southern San Joaquin Valley; 59 mph at Red Bluff, 58 mph at Arcata, 51 mph at Santa Rosa; 53 mph at Sonoma; 59 mph at Rio vista; 77 mph at Pt San Pablo (SF Bay); 62 mph at Ft. Funston (SF); 60 mph at SF Airport; 52 mph at Los Banos. An additional one to three inches of rain fell across northern and central California on Dec 31.	12/30 – 12/31	597,646	155	3522**	Y
2	A strong weather front delivered wind gusts over 50 mph at many locations in the southern 2/3 of the service area; 53 mph at Beale AFB (Marysville), 53 mph at Mather AFB (Sacramento), 48 mph at SF Airport, 53 mph at Bellota, 51 mph at Stockton, 55 mph at San Luis Obispo, 56 mph at Stockdale (Bakersfield). Rainfall totals were generally less than one inch.	01/07 – 01/09	278,360	149	Not Requested	N
3	A strong weather front accompanied by heavy rain and strong gusty winds targeted the central portion of the service area. Peak wind gusts included 50 mph at Valley Ford, 49 mph at Rio Vista, 55 mph at Ft. Funston, 53 mph at SF Airport, 49 mph at San Luis Obispo. Many coastal locations received between one to three inches of rain. The number of customer's affected (252,679) is a system total for December 18-20. However, PG&E excluded only the following divisions on the following days: December 18 (Diablo, East Bay, North Bay, North Coast, Peninsula, Sacramento, Stockton), December 19 (North Coast, Peninsula, Sacramento), December 20 (North Coast).	12/18 – 12/20	252,679	49	Not Requested	Y Noted in Table 4
4	A series of weather fronts affected the service area over this four day period resulting in a prolonged period of rainy and blustery weather. Some localized flooding was reported with rainfall totals in the two to four inch range. The strongest winds were on Mar 22 with peak gusts of 45 mph at SF Airport, 45 mph at Rio Vista, 44 mph at Sacramento, 43 mph at Redding and 33 mph at Fresno.	03/19 – 03/22	209,867	55	Not Requested	N
5	A weather front crossed the service area producing strong gusty winds in the Bay Area and Sacramento Valley. Peak gusts included 54 mph at Valley Ford, 51 mph at Table Mountain and Corning, 63 mph at Pt. San Pablo, 51 mph at Pleasanton, 64 mph at SF Airport, and 55 mph at Ft. Funston. Rainfall totals were generally between one and two inches in the North Bay and Sacramento Valley.	12/01 – 12/02	199,923	26	Not Requested	N
6	The series of storms that affected the service area on Dec 26-28 produced moderate rain and gusty winds (30-45 mph) in the north on Dec 26, heavy rain north (one to three inches) and gusty winds south; 44 mph at Stockton, 46 mph Bakersfield, 45 mph Santa Maria on Dec 27, and another one to two inches of rain north on Dec 28.	12/26 – 12/28	124,753	26	Not Requested	N
7	Transmission relay malfunction (Moraga-Oakland Station X, 115kV line #3).	11/20	116,513	9	Not Requested	N
8	A strong lightning storm developed a band of subtropical moisture that mainly affected the Bay Area, southern Sacramento Valley and San Joaquin Valley.	09/20	110,271	41	Not Requested	N
9	A weather front affected the central part of the service area bringing gusty winds and widespread shower activity. Strongest peak wind gusts were 44 mph at Salinas, 40 mph at Pleasanton, 38 mph at Bethel Island and 28 mph at Fresno. Thunderstorm activity was reported in the Bay Area, southern Sacramento Valley, and San Joaquin Valley, with numerous lightning strikes recorded.	02/21	105,652	37	Not Requested	N
10	A weak weather front crossed the service area followed by gusty northwesterly winds. Peak gusts were 37 mph at SF Airport, 36 mph at Eureka, 36 mph at Redding and 36 mph at Rio Vista. Rainfall totals were less than one-half inch.	10/15	85,802	37	Not Requested	N

* Note: Values exclude single distribution line transformer and planned outages

**Approximately 3,300 PG&E Operations, Maintenance & Construction (OM&C) employees responded. In addition to PG&E personnel, a total of 27 Contract Crews (approximately 142 individuals) and 20 Mutual Assistance Crews (approximately 80 individuals) from Southern California Edison (SCE) were utilized to supplement existing resources.

Table 4 - Ten Largest 2004 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
1	Two storms (Oct 17 and 19) moved through the service area. Wind gusts were generally between 24-50 mph (51 mph at Redding, 40 mph at Red Bluff, 37 mph at Napa) on Oct 17, and 35-60 mph on Oct 19 (51 mph Redding, 47 mph at Red Bluff, 51 mph at Marysville, 49 mph at San Francisco Airport, 55 mph at Bellota, 57 mph at San Luis Obispo). Rainfall totals were generally under ½ inch on Oct 17, but ranged from ½ to over 3 inches on Oct 19 (3.30 in. at Redding, 1.90 in. at Ukiah, 1.84 in. at Oakland, 1.89 in. at Santa Rosa)	10/15-10/20	522,213	104	N/A	N
2	A series of wet and windy storms crossed the service area during the last week of 2004. Many northern and central California locations received over 5 inches of rain, with totals above 10 inches at many coastal hill locations. Strong gusty winds, generally in the 25 to 45 mph range were reported on the 27 th and early hours of the 28 th , especially in the central and southern areas (45 mph at Marysville, 43 mph at Sacramento, 44 mph at Stockton, 46 mph at Santa Maria). Salinas and Ft Funston reported a gusts of 62 and 63 mph, respectively, on the morning of the 27 th . The storm of Dec 30 th delivered another round of strong winds with gusts generally in the 35 to 55 mph range in northern and central California (53 mph at Red Bluff, 51 mph at Redding, 59 mph at SF Airport, 45 mph at Oakland, 44 mph at Stockton, 39 mph at San Jose).	12/27-12/31	435,315	142	N/A	N
3	A strong weather front with gusty winds and heavy rain crossed the service area. Peak wind gusts in the northern and central portions of the service area generally ranged in the 35 to 65 mph range (58 mph at Arcata, 53 mph at Santa Rosa, 59 mph at Red Bluff, 64 mph at Cohasset, 56 mph at Marysville, 64 mph at Sacramento, 63 mph at San Pablo, 61 mph at Ft Funston, 57 mph at Bellota, 49 mph at Monterey, 49 mph at Templeton). Rainfall totals were generally in the 1-3 inch range, except under 1 inch in the San Joaquin Valley.	2/25-2/26	337,128	54	N/A	N
4	A strong weather front with gusty winds and heavy rain affected the northern half of the service area. Winds gusted from 35 to 65 mph in the Bay Area, Redwood and Northern Interior zones on February 17 th (62 mph at SF Airport, 57 mph at Sunol, 50 mph at Pleasanton, 52 mph at Konocti, 45 mph at Santa Rosa, 57 mph at Cohasset, 47 mph at Redding. Rainfall amounts were 3-5 inches in the Redwood zone, 1-4 inches in the Northern Interior and 1-2 inches in the Bay Area.	2/16-2/19	220,162	24	N/A	N
5	A strong weather front with gusty winds and heavy rain affected the northern half of the service area late on Dec 6 th and early Dec 7 th . Winds gusted from 35 to 60 mph in lower elevation areas of the Redwood, Bay Area and Northern Interior zones, 15-40 mph elsewhere (60 mph at Redding, 51 mph at Valley Ford, 48 mph at Sacramento, 45 mph at Clayton, 47 mph at SF Airport, 49 mph at Ben Lomond, 46 mph at Pleasanton). Rainfall amounts ranged from 1-4 inches at lower elevations, 5-12 inches above 2000 ft elevation, in the northern half of the service area.	12/6-12/8	190,673	35	N/A	N
6	A strong weather front with gusty winds and heavy rain affected the northern half of the service area on Jan 1. Winds gusted from 35 to 60 mph at lower elevations in the Bay Area, Redwood and Northern Interior zones (59 mph at Redding, 56 mph at SF Airport, 54 mph at Sunol, 53 mph at Marysville, 47 mph at Pleasanton, 49 mph at Sacramento, 60 mph at Santa Rosa, 54 mph at Cohasset. Rainfall amounts were 1-3 inches in the Redwood zone, Northern Interior and Bay Area zones.	1/01	172,397	74	N/A	N
7	Gusty north winds developed over northern and central portions of the service area as a strong high pressure system developed. Peak wind speeds included 58 mph at Hopland, 51 mph in Santa Rosa, 47 mph at Sonoma. Peak gusts in the East Bay hills ranged from 50-60 mph	11/20-11/21	118,558	32	N/A	N
8	A moderate weather front, with peak winds of 25-40 mph and accompanied by rainfall totals between ½ and 1 ½ inches, affected the entire service area. Strongest wind gusts were in the northern Sacramento Valley (40 mph at Redding, 38 mph at Red Bluff) and the southern San Joaquin Valley (40 mph at Bakersfield, 38 mph at Hanford).	10/26	74,160	41	N/A	N
9	Transmission substation outage occurred in Central Coast Division.	12/10	61,821	4	N/A	N
10	3 rd party dig-in to a transmission line in De Anza division.	10/1	58,591	13	N/A	N

* Note: Values exclude single distribution line transformer and planned outages

Table 4 - Ten Largest 2003 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
1	The first storm system of the fall season moved through the Service Area. Gusty southerly winds up to 30 mph developed in Northern and Central Service Area Zones on the 2 nd . Gusty northwest winds occurred on the 4 th . Widespread precipitation occurred in the Service Area with totals generally 1" in the mountains and 0.25" in the Central Valley.	11/02 – 11/04	184,849	26	N/A	N
2	A strong winter storm moved through the service area on December 29 th . Peak winds ranged from 30 to 70 mph with the strongest gusts north of a Monterey/Madera line. Peak winds included Red Bluff 46 mph, Beale AFB (Marysville) 59 mph, Clayton 47 mph, Sacramento 55 mph, and Stockton 44 mph. One to five inches of rain fell in the northern half of the state. Heavy snowfall was reported at low elevation locations in the northern Sacramento Valley; 18 inches at North Redding, 8-14 inches in downtown Redding, 15 inches at Burney and 10-12 inches at Nevada City.	12/29	164,363	192	N/A	N
3	A strong late winter storm system moved through the Service Area. Two to six inches of precipitation fell in the northern half of the Service Area; 0.50" to 1.5" of precipitation fell in the southern half of the Service Area; the southern half of the state also experienced heavy rains with one to four inches in the LA Basin. Peak wind speeds included 51 mph at Redding; 44 mph at SFO; 40 mph at Sacramento; 35 mph in Fresno; and 31 mph at Santa Rosa. Two to three feet of snowfall was recorded in the Sierra Nevada Mountains at elevations above 5,000" during this three-day period.	03/13 – 03/15	160,863	29	N/A	N
4	A winter storm system moved through the Service Area during this two-day period. One to three inches of precipitation fell over the northern half of the Service Area. Snowfall totals in the northern half of the Sierra Nevada Mountains ranged from one to three feet with 16" at Alpine Meadows; 24" at Soda Springs; and 28" at Sugar Bowl. Peak wind speeds ranged from 20 to 40 mph with 39 mph at SFO; 29 mph at Sacramento and Fresno; and 24 mph at Santa Rosa.	12/09 – 12/10	147,128	144	N/A	N
5	A cold winter storm system moved through the Service Area during this two-day period. Precipitation totals included 2.34" at Redding; 1.38" at Santa Rosa; 0.83" at Sacramento; 0.70" in SFO; and 0.25 at Fresno. The storm was accompanied by numerous thunderstorms and gusty southerly winds, principally on the 8 th . Peak wind speeds included 37 mph at SFO; 30 mph in Redding; 26 mph at Sacramento; and 24 mph at Santa Rosa.	11/08 – 11/09	141,666	46	N/A	N
6	A strong winter storm, accompanied by heavy rain and gusty southerly winds, moved through the Service Area. Peak wind speeds ranged from 30 to 65 mph with the strongest gusts in the Bay Area, Redwood Coast, and the Northern Interior. Peak wind speeds included 56 mph in Redding; 53 mph in SFO; 33 mph in Santa Rosa; 30 mph in Sacramento; and 23 mph in Fresno.	12/14	108,910	24	N/A	N
7	A strong earthquake in San Luis Obispo County (Paso Robles).	12/22	107,291	34	N/A	Y
8	The Mission Substation was de-energized due to a fire. The cause of the fire is still under investigation.	12/20	101,534	30	N/A	N
9	A cold, upper level low pressure system moved through the State, accompanied by numerous showers and thundershowers, bringing heavy snow to the mountains Six to ten inches of snow fell in Truckee and the Lake Tahoe Region with up to one and on-half feet recorded at higher elevations. Thunder, lightning and small hail was observed in the Bay Area and in the Central Valley from Red Bluff to Sacramento.	10/31	91,907	21	N/A	N
10	A surge of subtropical moisture resulted in an outbreak of summer season shower and thunderstorm activity through out the Service Area. While precipitation totals were insignificant, there were numerous reports of lightning activity from the evening of the 25 th through the evening of the 26 th .	08/26	80,159	42	N/A	N

* Note: Values exclude single distribution line transformer and planned outage

Table 4 - Ten Largest 2002 Outage Events

Rank	Description	Date	Number of Customer Interruptions*	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
1	During the December 13-21 storms the highest wind speeds were recorded on December 16 when peak winds ranged from 40 to over 80 mph throughout the service area, except for the southern San Joaquin Valley. Peak gusts over 90 mph were recorded at ridgeline sites along the North Coast and Bay Area. Peak winds over 40 mph were reported in the San Joaquin Valley on December 19. In the northern half of the service area between 5 and 15 inches of rainfall was reported, with over 20 inches of rain reported at some stations in the coastal hills north of the Bay Area and Northern Sierra foothills.	12/13 –12/21	1,973,806	543	>3,200**	Y
2	During the November 7-8 storms, peak wind speeds ranged from 30 to over 60 mph throughout the service area, except for the southern San Joaquin Valley. Peak gusts over 90 mph were recorded at ridgeline stations in the Bay Area. Storm rainfall totals generally ranged from one to three inches throughout the service area, with over five inches recorded at some stations in the coastal hills.	11/7 – 11/8	885,431	121	>3,200**	Y
3	A series of storm systems moved through the Service Area during this four day period. These storm systems were accompanied by strong gusty winds, especially on the 28 th , late on the 30 th , and early on the 31 st . Peak wind speeds on the 28 th included 54 mph in San Francisco, 44 mph in Oakland, 47 mph in Redding, and 43 mph in Bakersfield. Peak wind speeds on the 31 st included 103 mph at Kregor Peak, 72 mph at Las Trampas Ridge, 54 mph in San Francisco, 54 mph in Santa Rosa, 49 mph in Concord, and 46 mph in Redding	12/28 – 12/31	356,505	146	Not Requested	N
4	A heat wave enveloped the entire Service Area beginning on July 8 th . Temperatures in the interior valley remained above 100 Deg F through July 15 th . The maximum temperatures on the 9 th included 92 Deg F in Oakland, 90 in San Francisco, 103 in Santa Rosa, 102 in Concord, 107 in Livermore, 104 in Sacramento, 106 in Fresno. On the 10 th , maximum temperatures reached 110 Deg F in Stockton and Sacramento and 115 in Redding. On the 11 th , maximum temperatures included 109 in Ukiah, 112 in Redding, 106 in Fresno, and 109 in Bakersfield.	07/09 – 07/11	164,238	46	Not Requested	N
5	A cold front moved through the Service Area on the 14 th and 15 th accompanied by gusty west and northwest winds. Peak wind speeds included 52 mph in San Francisco, 52 mph at Los Banos, 43 mph in Redding, 41 mph at Stockton, 41 mph in Fresno, and 37 mph in Bakersfield.	04/14 – 04/15	97,105	25	Not Requested	N
6	Gusty north winds developed over northern and central portions of the Service Area as a strong high pressure system moved into the Great Basin. Peak wind speeds included 37 mph in San Francisco, 35 mph in Red Bluff, 38 mph in Redding, and 37 mph in Stockton.	02/28 – 03/01	93,922	44	Not Requested	N
7	An early summer heat wave affected the area with maximum temperatures in the interior valley in the mid-90s to near 100 deg F. Maximum temperatures on the 29 th included 96 Deg F in Red Bluff, 95 in Redding, 94 in Stockton, and 94 in Fresno. Maximum temperatures on the 30 th included 98 in Redding, 94 in Sacramento, 99 in Stockton, 101 in Fresno, and 99 in Bakersfield.	05/29-05/30	87,244	135	Not Requested	N
8	A Transmission system outage occurred in Diablo division.	11/19	59,023	7 Minutes	Not Requested	N
9	A storm system pushed through the Service Area on the 6 th and 7 th accompanied by one to two inches of rain and gusty southerly winds. Peak wind speeds included 37 mph in San Francisco, 43 mph in Red Bluff, and 38 mph in Stockton.	03/07	51,847	23	Not Requested	N
10	Gusty north winds occurred in the northern half of the Service Area with 39 mph at Red Bluff, 37 mph at San Francisco, 25 mph at Redding, and 24 mph at Stockton.	03/17	46,065	23	Not Requested	N

* Note: Values exclude single distribution line transformer and planned outages. Values reflect all customers in PG&E's service territory affected by outages for those dates.
 ** Note: Values are estimates of the number of PG&E electric field personnel working. These numbers do not include any non-PG&E personnel.

SECTION 8

Attachment 5

SECTION B

**Histograms of Events Meeting the CPUC Definition of an
Excludable Major Event**

Of the ten largest events listed in Table 5, the following events met the CPUC definition of a major event under criteria (a) state of emergency declaration.

- March 17-22, 2011
- March 24-27, 2011

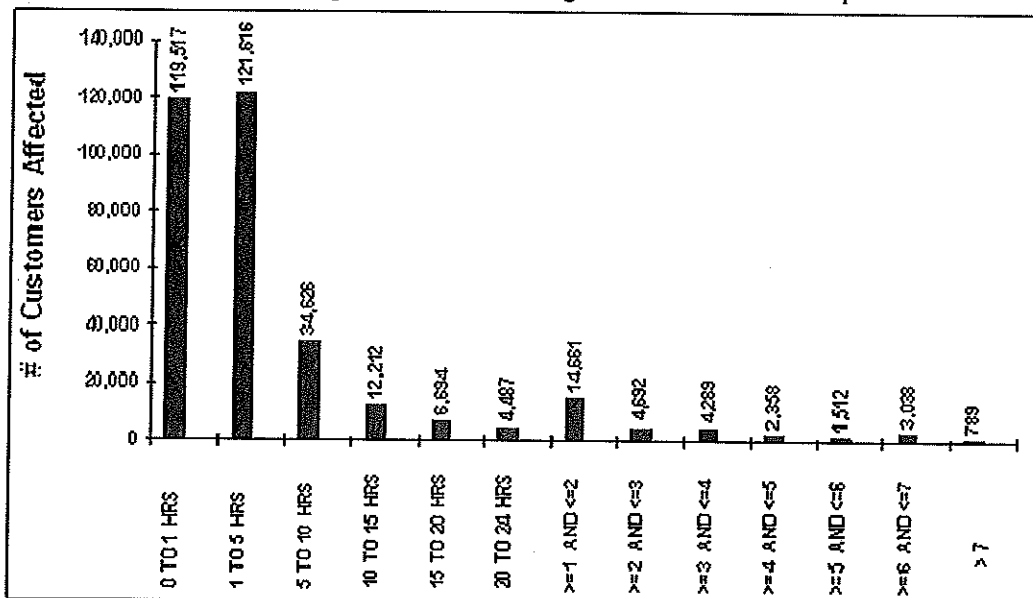
Although these storms have been identified as two separate consecutive-day events in Table 5, PG&E has combined them into one event in this report since it better represents the storm's impact on our customers. Table 6 below indicates the number of customers without service at periodic intervals for this combined event (March 17 – 27, 2011). The numbers of customers noted in the table are for only those divisions identified in Table 4, which represents the excludable portion of these events. It should be noted that the number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%.

NOTE: The number of customers affected shown in the histogram below shows 330,491 customers. However, 82 customers recorded in PG&E's OUTAGE database have been excluded from this table since they were vacant campsites without any campers / customers.

Table 6 / Figure 1 – 2011 Outage Event Duration Summary

3/17/2011 - 3/27/2011		
Outage Duration	Customers Affected	Cumulative %
0 TO 1 HRS	119,517	36.16%
1 TO 5 HRS	121,616	72.96%
5 TO 10 HRS	34,626	83.44%
10 TO 15 HRS	12,212	87.13%
15 TO 20 HRS	6,694	89.16%
20 TO 24 HRS	4,487	90.52%
>=1 AND <=2	14,661	94.95%
>=2 AND <=3	4,692	96.37%
>=3 AND <=4	4,289	97.67%
>=4 AND <=5	2,358	98.38%
>=5 AND <=6	1,512	98.84%
>=6 AND <=7	3,038	99.76%
> 7	789	100.00%
<i>Total</i>	330,491	

Table 6 / Figure 2 – 2011 Outage Event Duration Graph



The excludable portion of this storm event consisted of 1,137 sustained outages. Approximately 1,694 PG&E employees from the divisions noted in Table 4 responded to this event. In addition, approximately 120 crews (vegetation and contract crews) were utilized to supplement the existing resources.

Of the total customers that experienced outages during the excludable portion of this eleven-day event, 90.5% were restored within 24 hours. Approximately 5.0% of the customers impacted by the storm were without service after 48 hours. This was primarily due to the severity and duration of the storm activity. Restoration to the remaining customers was delayed due to the heavy damage to equipment (poles and conductor) as a result of trees falling on and through the lines. This was prevalent in the northern and central coast areas. The tables below provide further outage duration detail as well as the damage caused (in term of equipment).

Of the ten largest events listed in Table 4, the following event met the CPUC definition of a major event.

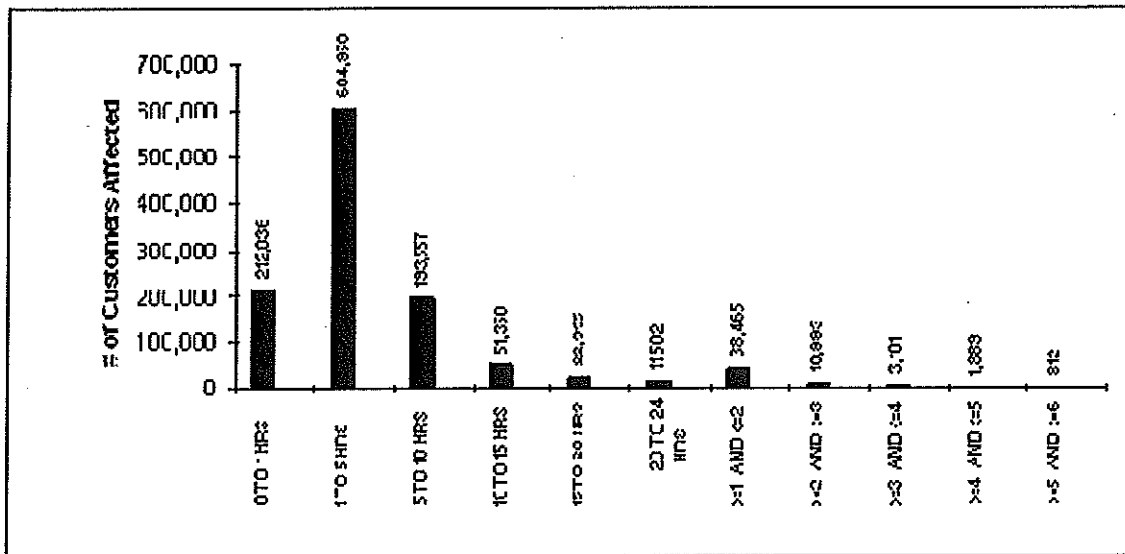
- January 18-24, 2010.

Table 5 below indicates the number of customers without service at periodic intervals for this event. It should be noted that the number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%. **NOTE:** The number of customers affected shown in the histogram below shows 1,153,304 customers, which is 1.4% lower than the 1,169,513 value recorded in PG&E's OUTAGE database.

Table 5 / Figure 1 – 2010 Outage Event Duration Summary

01/18/2010 - 01/24/2010		
Outage Duration	Customers Affected	Cumulative %
0 TO 1 HRS	212,036	18.39%
1 TO 5 HRS	604,950	70.84%
5 TO 10 HRS	193,557	87.62%
10 TO 15 HRS	51,350	92.07%
15 TO 20 HRS	22,995	94.07%
20 TO 24 HRS	11,502	95.07%
>=1 AND <=2	38,465	98.40%
>=2 AND <=3	10,993	99.35%
>=3 AND <=4	3,101	99.62%
>=4 AND <=5	1,889	99.79%
>=5 AND <=6	812	99.86%
>=6 AND <=7	245	99.88%
> 7	1,409	100.00%
<i>Total</i>	1,153,304	

Table 5 / Figure 2 – 2010 Outage Event Duration Graph



This storm resulted in 3,147 sustained outages. Approximately 3,830 PG&E employees responded. In addition, approximately 1,360 individuals (vegetation personnel and contract crews) were utilized to supplement the existing resources.

Of the total customers that experienced outages during this seven-day Excludable Major Event, over 95% were restored within 24 hours. Approximately 1.6% of the customers impacted by the storm were without service after 48 hours. This was primarily due to the severity and duration of the storm activity. Restoration to the remaining customers was delayed due to the heavy damage to equipment (poles and conductor) as a result of trees falling on and through the

Of the ten largest events listed in Table 4, the following event met the CPUC definition of a major event.

- October 13-14, 2009.

The Table 5 below indicates the number of customers without service at periodic intervals for this event. It should be noted that the number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%. **NOTE:** The number of customers affected shown in the histogram below shows 612,019 customers, which is 0.9% lower than the 617,589 value recorded in PG&E's OUTAGE database.

Table 5 / Figure 1 – 2009 Outage Event Duration Summary

10/13/2009 - 10/14/2009		
Outage Duration	Customers Affected	Cumulative %
0 TO 1 HRS	81,010	13.2%
1 TO 5 HRS	315,520	64.8%
5 TO 10 HRS	99,270	81.0%
10 TO 15 HRS	38,176	87.2%
15 TO 20 HRS	25,305	91.4%
20 TO 24 HRS	16,424	94.1%
>=1 AND <=2	33,179	99.5%
>=2 AND <=3	2,876	100.0%
>=3 AND <=4	253	100.0%
>=4 AND <=5	0	100.0%
>=5 AND <=6	0	100.0%
>=6 AND <=7	0	100.0%
> 7	6	100.0%
<i>Total</i>	612,019	

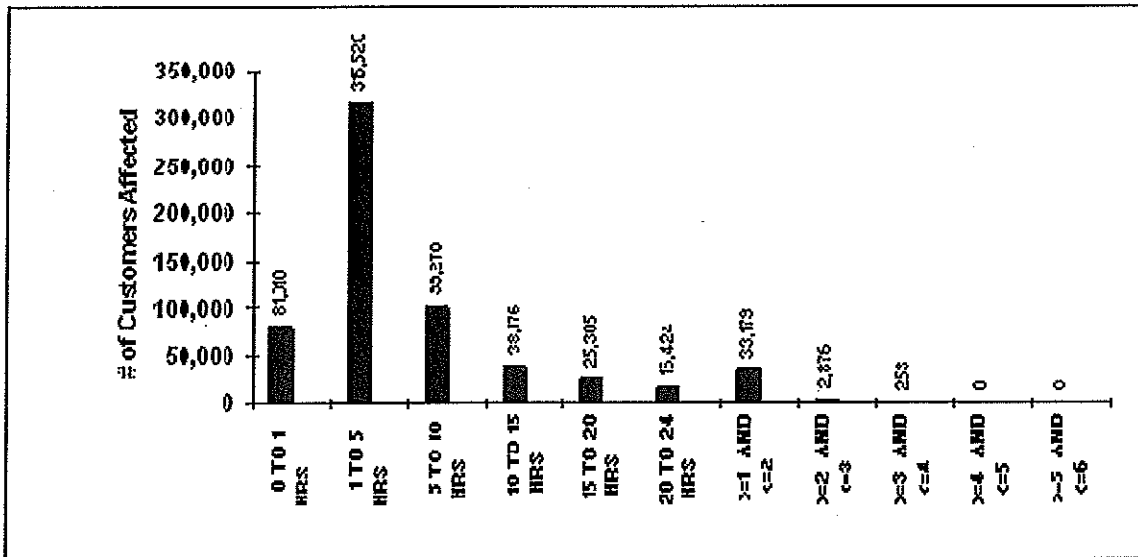


Table 6 – 2009 Outage Duration Details

Outage Duration	Major Event Days: 10/13/09 - 10/14/09		Outage Duration	Major Event Days: 10/13/09 - 10/14/09		Outage Duration	Major Event Days: 10/13/09 - 10/14/09	
	Customers Restored	Cumulative %		Customers Restored	Cumulative %		Customers Restored	Cumulative %
0 TO 1 HRS	81,010	13.24%	48 TO 49 HRS	211	99.52%	78 TO 79 HRS	0	100.00%
1 TO 5 HRS	315,520	64.79%	49 TO 50 HRS	336	99.58%	79 TO 80 HRS	9	100.00%
5 TO 10 HRS	99,270	81.01%	50 TO 51 HRS	599	99.68%	80 TO 81 HRS	2	100.00%
10 TO 15 HRS	38,176	87.25%	51 TO 52 HRS	133	99.70%	81 TO 82 HRS	0	100.00%
15 TO 20 HRS	25,305	91.38%	52 TO 53 HRS	175	99.73%	82 TO 83 HRS	0	100.00%
20 TO 24 HRS	16,424	94.07%	53 TO 54 HRS	20	99.73%	83 TO 84 HRS	0	100.00%
24 TO 25 HRS	3,429	94.63%	54 TO 55 HRS	114	99.75%	84 TO 85 HRS	0	100.00%
25 TO 26 HRS	2,199	94.99%	55 TO 56 HRS	312	99.80%	85 TO 86 HRS	0	100.00%
26 TO 27 HRS	2,235	95.35%	56 TO 57 HRS	181	99.83%	86 TO 87 HRS	0	100.00%
27 TO 28 HRS	1,857	95.65%	57 TO 58 HRS	149	99.85%	87 TO 88 HRS	0	100.00%
28 TO 29 HRS	3,381	96.21%	58 TO 59 HRS	156	99.88%	88 TO 89 HRS	0	100.00%
29 TO 30 HRS	804	96.34%	59 TO 60 HRS	37	99.88%	89 TO 90 HRS	0	100.00%
30 TO 31 HRS	1,289	96.55%	60 TO 61 HRS	2	99.88%	90 TO 91 HRS	0	100.00%
31 TO 32 HRS	2,790	97.00%	61 TO 62 HRS	19	99.89%	91 TO 92 HRS	0	100.00%
32 TO 33 HRS	2,449	97.41%	62 TO 63 HRS	29	99.89%	92 TO 93 HRS	0	100.00%
33 TO 34 HRS	1,244	97.61%	63 TO 64 HRS	8	99.89%	93 TO 94 HRS	0	100.00%
34 TO 35 HRS	592	97.71%	64 TO 65 HRS	72	99.90%	94 TO 95 HRS	0	100.00%
35 TO 36 HRS	1,558	97.96%	65 TO 66 HRS	76	99.92%	95 TO 96 HRS	0	100.00%
36 TO 37 HRS	544	98.05%	66 TO 67 HRS	5	99.92%	96 TO 97 HRS	0	100.00%
37 TO 38 HRS	4,407	98.77%	67 TO 68 HRS	0	99.92%	97 TO 98 HRS	0	100.00%
38 TO 39 HRS	98	98.78%	68 TO 69 HRS	13	99.92%	98 TO 99 HRS	0	100.00%
39 TO 40 HRS	418	98.85%	69 TO 70 HRS	57	99.93%	99 TO 100 HRS	0	100.00%
40 TO 41 HRS	487	98.93%	70 TO 71 HRS	139	99.95%	100 TO 101 HRS	0	100.00%
41 TO 42 HRS	958	99.09%	71 TO 72 HRS	33	99.96%	101 TO 102 HRS	0	100.00%
42 TO 43 HRS	109	99.11%	72 TO 73 HRS	29	99.96%	102 TO 103 HRS	0	100.00%
43 TO 44 HRS	364	99.17%	73 TO 74 HRS	71	99.97%	103 TO 104 HRS	0	100.00%
44 TO 45 HRS	661	99.27%	74 TO 75 HRS	15	99.98%	104 TO 105 HRS	0	100.00%
45 TO 46 HRS	120	99.29%	75 TO 76 HRS	2	99.98%	105 TO 106 HRS	0	100.00%
46 TO 47 HRS	640	99.40%	76 TO 77 HRS	70	99.99%	106 TO 107 HRS	0	100.00%
47 TO 48 HRS	546	99.49%	77 TO 78 HRS	55	100.00%	107 TO 108 HRS	0	100.00%
						108 TO 109 HRS	0	100.00%
						109 TO 110 HRS	0	100.00%
						> 110 HRS	0	100.00%
						Total	612,019	

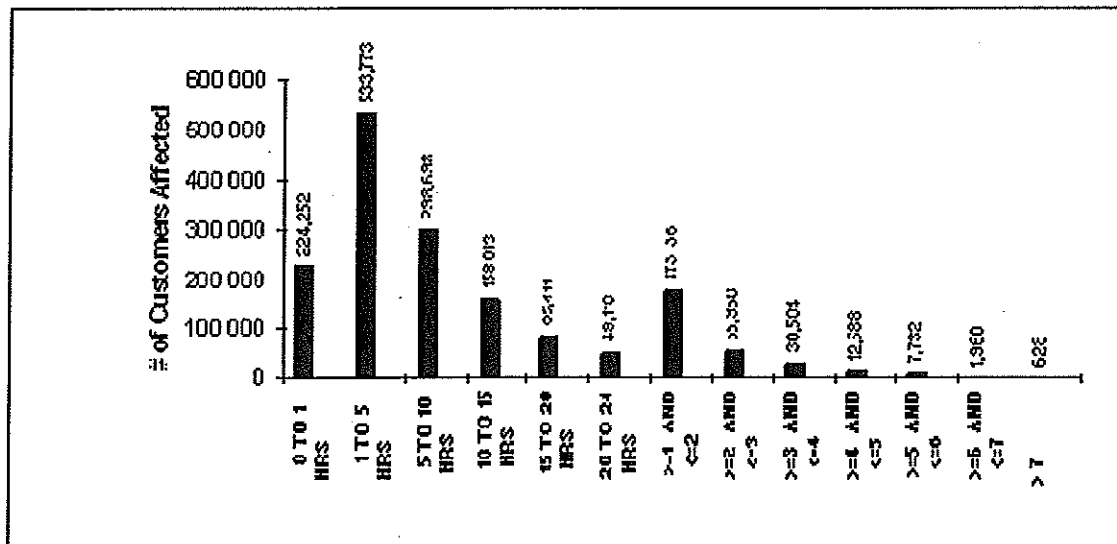
Of the ten largest events listed in Table 4, the following event met the CPUC definition of a major event.

- January 3-6, 2008.

The following table in this section indicates the number of customers without service at periodic intervals for this event. It should be noted that the number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%.

Table 5 / Figure 1 – 2008 Outage Event Duration Summary

01/03/08 - 01/06/08		
Outage Duration	Customers Affected	Cumulative %
0 TO 1 HRS	224,252	13.74%
1 TO 5 HRS	533,773	46.45%
5 TO 10 HRS	298,698	64.76%
10 TO 15 HRS	158,013	74.44%
15 TO 20 HRS	85,411	79.68%
20 TO 24 HRS	49,110	82.69%
>=1 AND <=2	173,136	93.30%
>=2 AND <=3	55,960	96.73%
>=3 AND <=4	30,504	98.60%
>=4 AND <=5	12,588	99.37%
>=5 AND <=6	7,732	99.84%
>=6 AND <=7	1,960	99.96%
> 7	628	100.00%
<i>Total</i>	1,631,765	



Of the ten largest events listed in Table 5 the following events met the CPUC definition of a major event:

- January 1-5, 2006
- February 26-28, 2006
- March 2-5, 2006
- March 9-14, 2006
- April 4-5, 2006
- July 21-27, 2006
- December 26-28, 2006

The following tables in this section indicate the number of customers without service at periodic intervals for this event. It should be noted that the number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%.

Table 6/ Figure 1 – January 1-5, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	01/01/2006	Noted in Table 5	68,532
1 TO 5 HRS	"	"	274,930
5 TO 10 HRS	"	"	91,135
10 TO 15 HRS	"	"	18,499
15 TO 20 HRS	"	"	15,785
20 TO 24 HRS	"	"	5,743
>=1 AND <=2	"	"	20,135
>=2 AND <=3	"	"	5,321
>=3 AND <=4	"	"	754
>=4 AND <=5	"	"	283
>=5 AND <=6	"	"	25
>=6 AND <=7	"	"	0
> 7	"	"	0

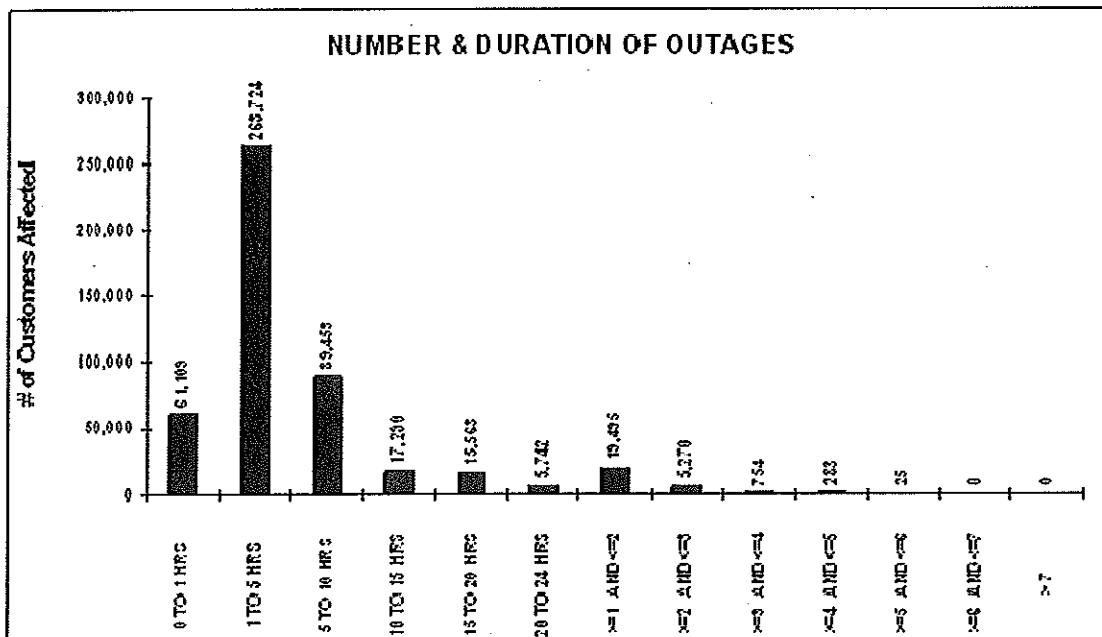


Table 7/ Figure 2 – February 26-28, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	02/26/2006	Noted in Table 5	96,141
1 TO 5 HRS	"	"	179,045
5 TO 10 HRS	"	"	28,879
10 TO 15 HRS	"	"	6,948
15 TO 20 HRS	"	"	17,155
20 TO 24 HRS	"	"	1,741
>=1 AND <=2	"	"	1,527
>=2 AND <=3	"	"	0
>=3 AND <=4	"	"	0
>=4 AND <=5	"	"	0
>=5 AND <=6	"	"	0
>=6 AND <=7	"	"	0
> 7	"	"	0

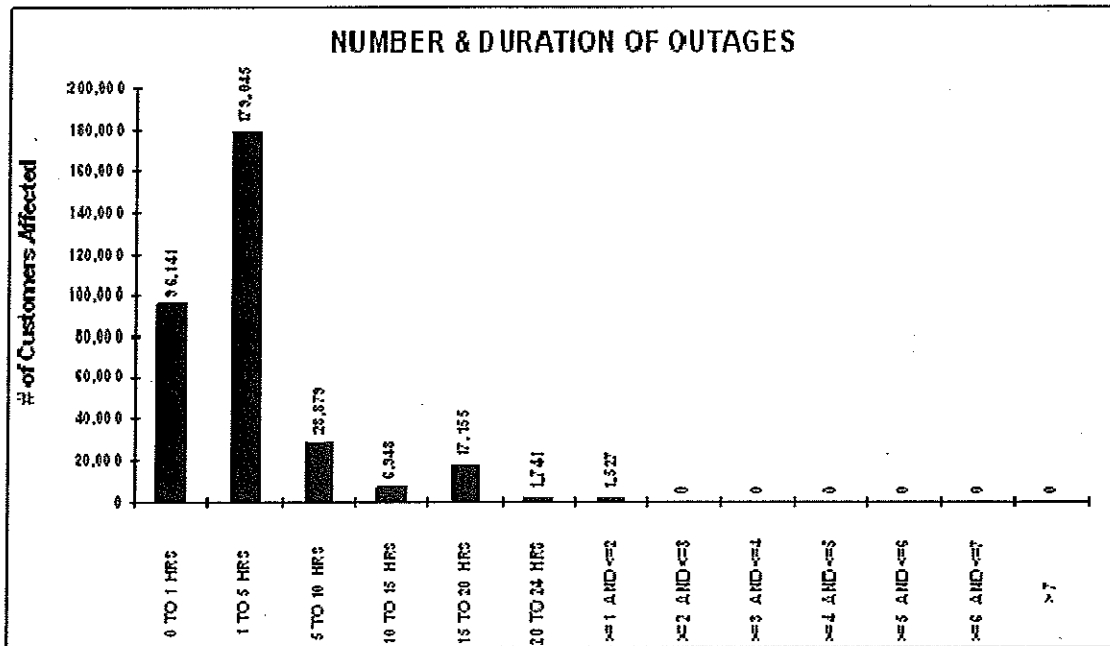


Table 8/ Figure 3 – March 2-5, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	03/02/2006	Noted in Table 5	20,352
1 TO 5 HRS	"	"	72,562
5 TO 10 HRS	"	"	14,682
10 TO 15 HRS	"	"	989
15 TO 20 HRS	"	"	1,306
20 TO 24 HRS	"	"	559
>=1 AND <=2	"	"	2,650
>=2 AND <=3	"	"	54
>=3 AND <=4	"	"	0
>=4 AND <=5	"	"	0
>=5 AND <=6	"	"	0
>=6 AND <=7	"	"	0
> 7	"	"	0

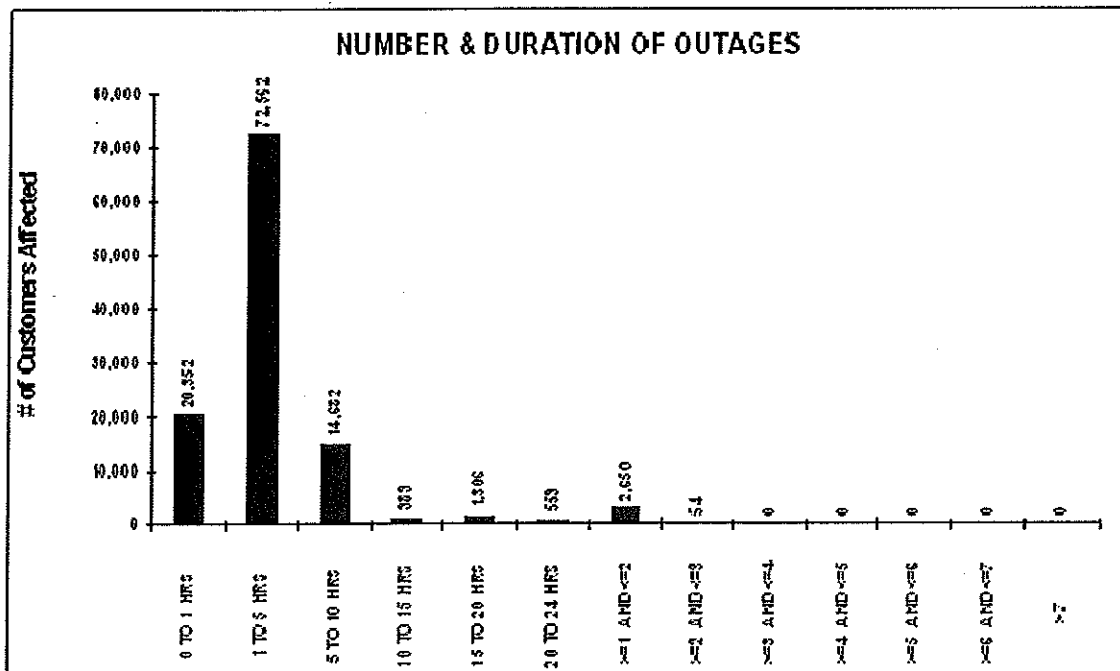


Table 9/ Figure 4 – March 9-14, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	03/09/2006	Noted in Table 5	42,289
1 TO 5 HRS	"	"	42,718
5 TO 10 HRS	"	"	29,429
10 TO 15 HRS	"	"	6,572
15 TO 20 HRS	"	"	11,601
20 TO 24 HRS	"	"	4,096
>=1 AND <=2	"	"	1,196
>=2 AND <=3	"	"	589
>=3 AND <=4	"	"	0
>=4 AND <=5	"	"	0
>=5 AND <=6	"	"	0
>=6 AND <=7	"	"	0
> 7	"	"	0

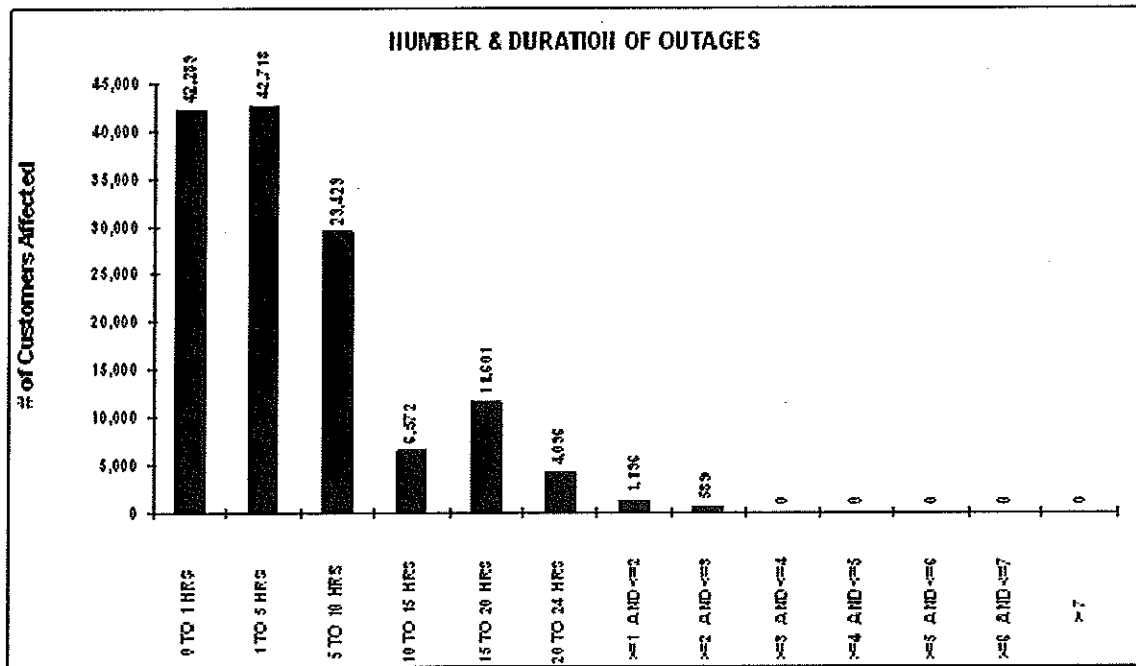


Table 10/ Figure 5 – April 4-5, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	04/04/2006	Noted in Table 5	19,565
1 TO 5 HRS	"	"	60,412
5 TO 10 HRS	"	"	18,949
10 TO 15 HRS	"	"	1,507
15 TO 20 HRS	"	"	297
20 TO 24 HRS	"	"	2
>=1 AND <=2	"	"	1,219
>=2 AND <=3	"	"	0
>=3 AND <=4	"	"	0
>=4 AND <=5	"	"	0
>=5 AND <=6	"	"	0
>=6 AND <=7	"	"	0
> 7	"	"	0

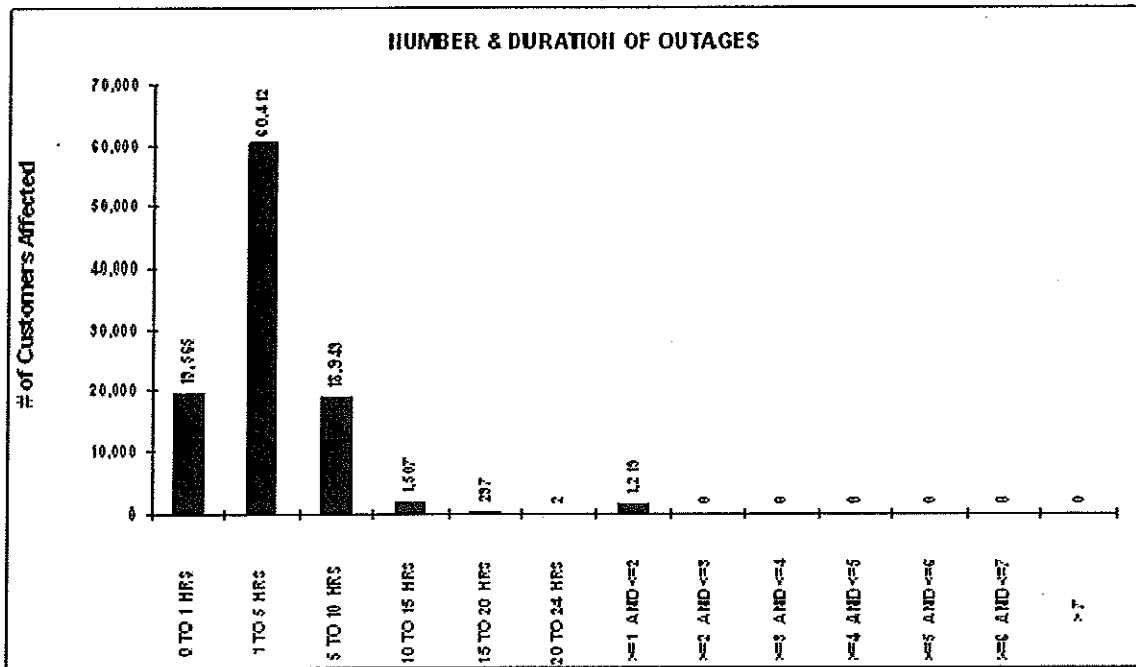


Table 11/ Figure 6 – July 21-27, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	07/20/2006	Noted in Table 5	142,417
1 TO 5 HRS	"	"	371,120
5 TO 10 HRS	"	"	79,309
10 TO 15 HRS	"	"	27,622
15 TO 20 HRS	"	"	6,718
20 TO 24 HRS	"	"	3,443
>=1 AND <=2	"	"	17,398
>=2 AND <=3	"	"	1,542
>=3 AND <=4	"	"	69
>=4 AND <=5	"	"	323
>=5 AND <=6	"	"	0
>=6 AND <=7	"	"	0
> 7	"	"	0

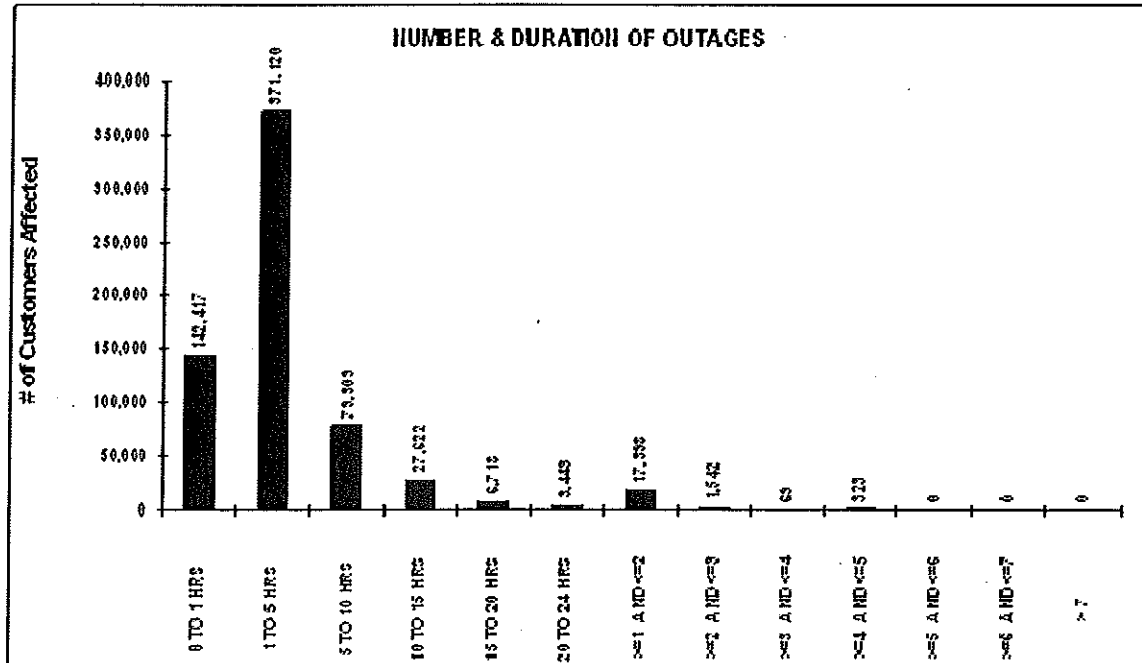
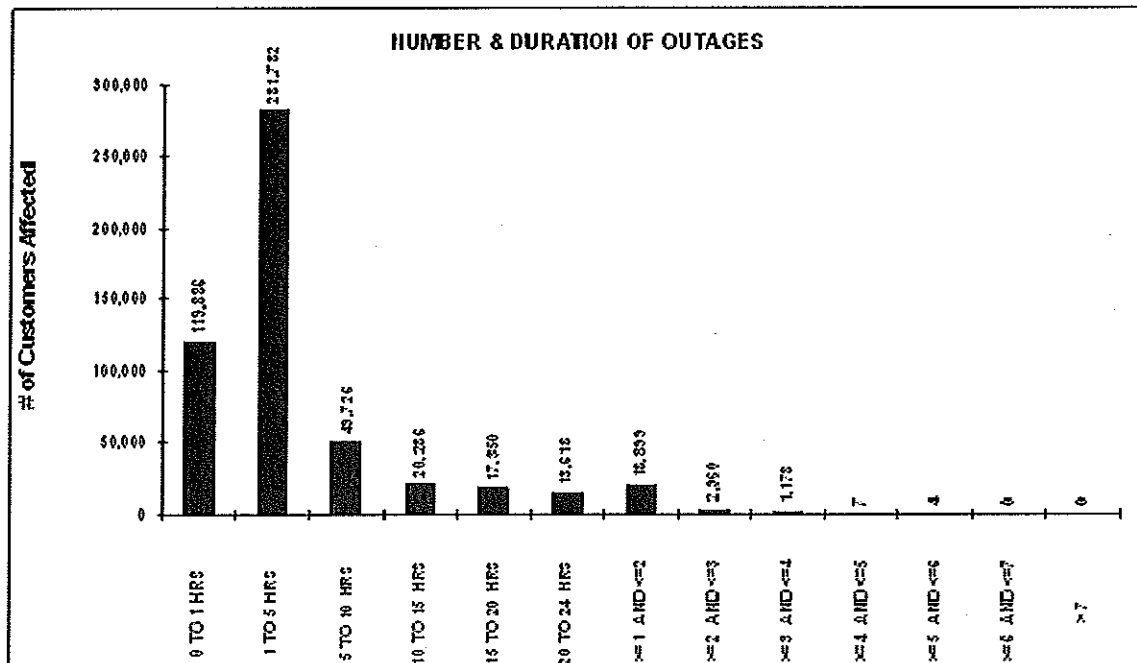


Table 12/ Figure 7 – December 26-28, 2006 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	12/26/2006	Noted in Table 5	119,886
1 TO 5 HRS	"	"	281,782
5 TO 10 HRS	"	"	49,726
10 TO 15 HRS	"	"	20,286
15 TO 20 HRS	"	"	17,350
20 TO 24 HRS	"	"	13,618
>=1 AND <=2	"	"	18,899
>=2 AND <=3	"	"	2,960
>=3 AND <=4	"	"	1,178
>=4 AND <=5	"	"	7
>=5 AND <=6	"	"	4
>=6 AND <=7	"	"	0
> 7	"	"	0



Of the ten largest events listed in Table 5, two events, December 18-20 and December 30-31, met the CPUC definition of a major event. Tables 6 & 7 indicate the number of customers without service at the requested periodic intervals for this event.

Table 6 – December 18-20, 2005 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	12/18/2005	Noted in Table 5	23,963
1 TO 5 HRS	"	"	77,958
5 TO 10 HRS	"	"	16,446
10 TO 15 HRS	"	"	1,897
15 TO 20 HRS	"	"	1,640
20 TO 24 HRS	"	"	50
>=1 AND <=2 Days	"	"	1,577
>=2 AND <=3 Days	"	"	7

Note: The number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%.

Figure 1 – December 18-20, 2005 Outage Event Duration Summary

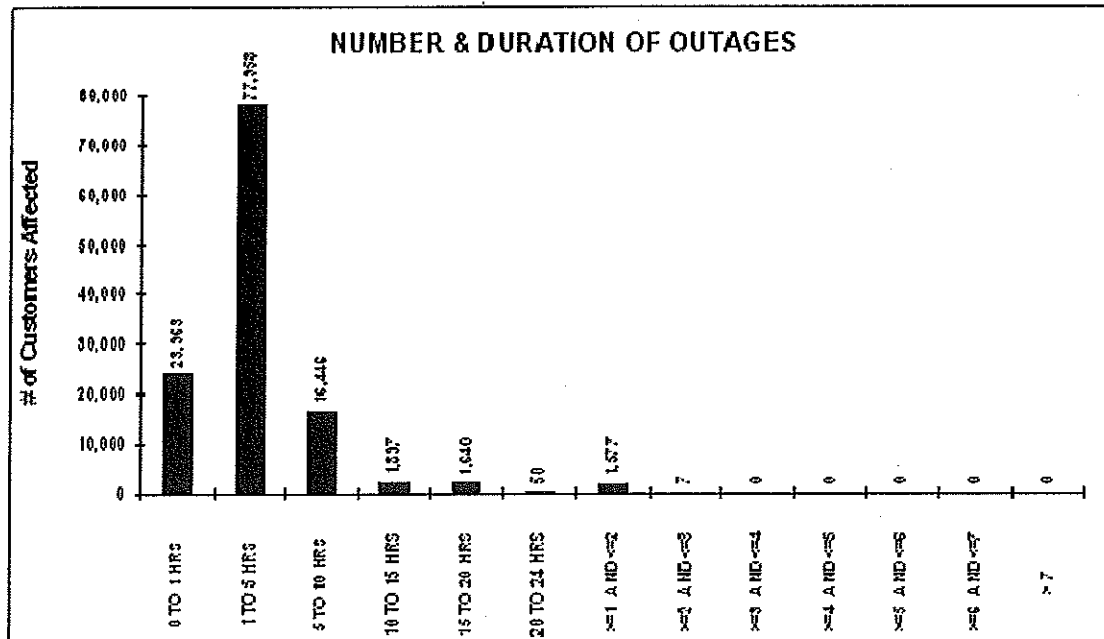
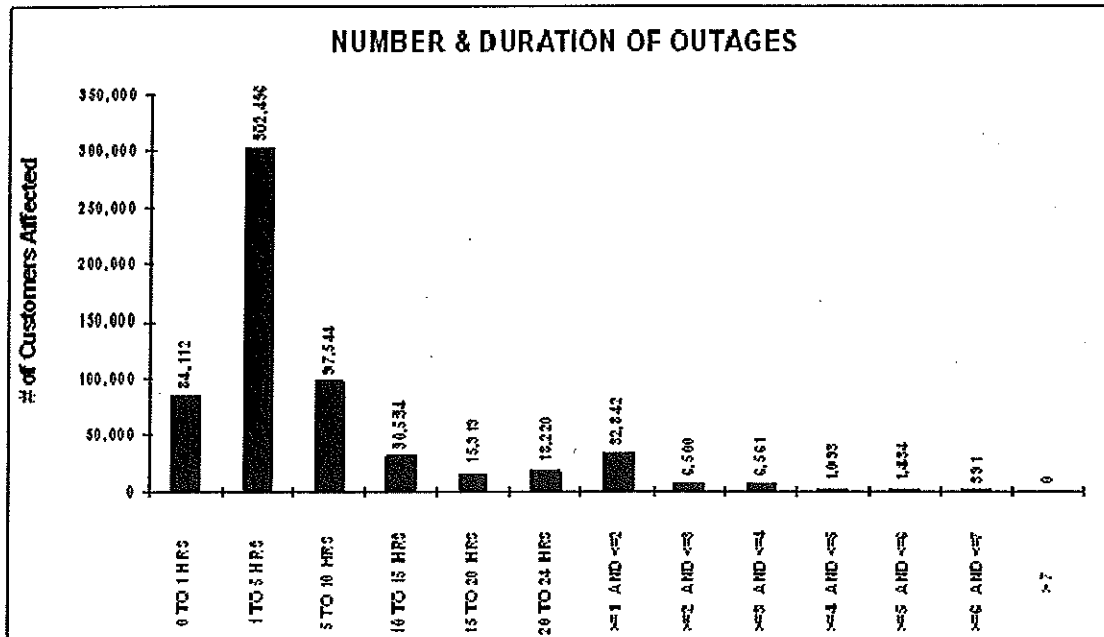


Table 7 – December 30-31, 2005 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Customers Affected
0 TO 1 HRS	12/30-12/31/2005	Noted in Table 5	84,112
1 TO 5 HRS	"	"	302,496
5 TO 10 HRS	"	"	97,544
10 TO 16 HRS	"	"	30,534
15 TO 20 HRS	"	"	15,919
20 TO 24 HRS	"	"	18,220
>=1 AND <=2 Days	"	"	32,842
>=2 AND <=3 Days	"	"	6,500
>=3 AND <=4 Days	"	"	6,561
>=4 AND <=5 Days	"	"	1,093
>=5 AND <=6 Days	"	"	1,434
>=6 AND <=7 Days	"	"	391
> 7 Days	"	"	0

Note: The number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%.

Figure 2 - December 30-31, 2005 Outage Event Duration



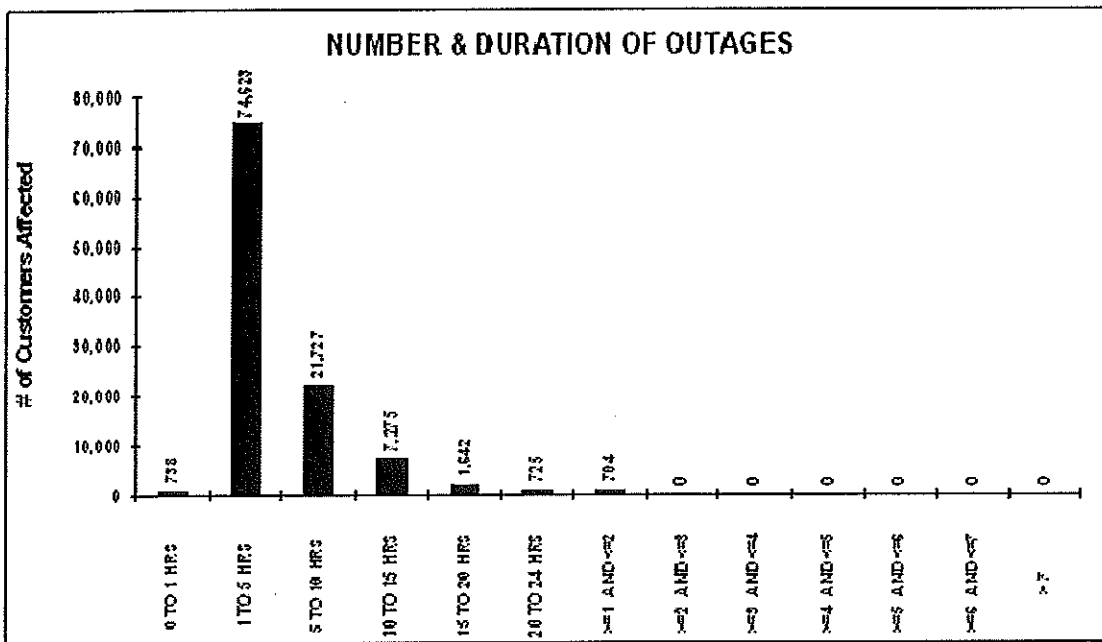
Of the ten largest events listed in 2003, only one event, the December 22 earthquake met the CPUC definition of a major event. Table 5 indicates the number of customers without service at the requested periodic intervals for this request.

Table 5 – December 22, 2003 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	12/22/2003	Noted in table 4	738
1 TO 5 HRS	"	"	74,623
5 TO 10 HRS	"	"	21,727
10 TO 15 HRS	"	"	7,275
15 TO 20 HRS	"	"	1,642
20 TO 24 HRS	"	"	725
>=1 AND <=2 Days	"	"	704

Note: The number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up to 5%.

Figure 1 – December 22, 2003 Outage Event Duration Summary



Of the ten largest events listed in Table 4, two events, November 7-8 and December 13-21, met the CPUC definition of a major event. Tables 5 & 6 indicate the number of customers without service at the requested periodic intervals for this event.

Table 5 – November 7-8, 2002 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customer Interruptions
0 TO 1 HRS	11/7-8/2002	Noted in Table 4	148,826
1 TO 5 HRS	"	"	434,220
5 TO 10 HRS	"	"	147,786
10 TO 15 HRS	"	"	61,686
15 TO 20 HRS	"	"	29,368
20 TO 24 HRS	"	"	13,523
>=1 AND <=2 Days	"	"	40,519
>=2 AND <=3 Days	"	"	2,413
>=3 AND <=4 Days	"	"	673
>=4 AND <=5 Days	"	"	248
>=5 AND <=6 Days	"	"	50

Note: The number of customer outages segmented by restoration period requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown above is what PG&E has been able to reconstruct from several databases and may have a margin of error of around 5%.

Figure 1 – November 7-8, 2002 Outage Event Duration Summary

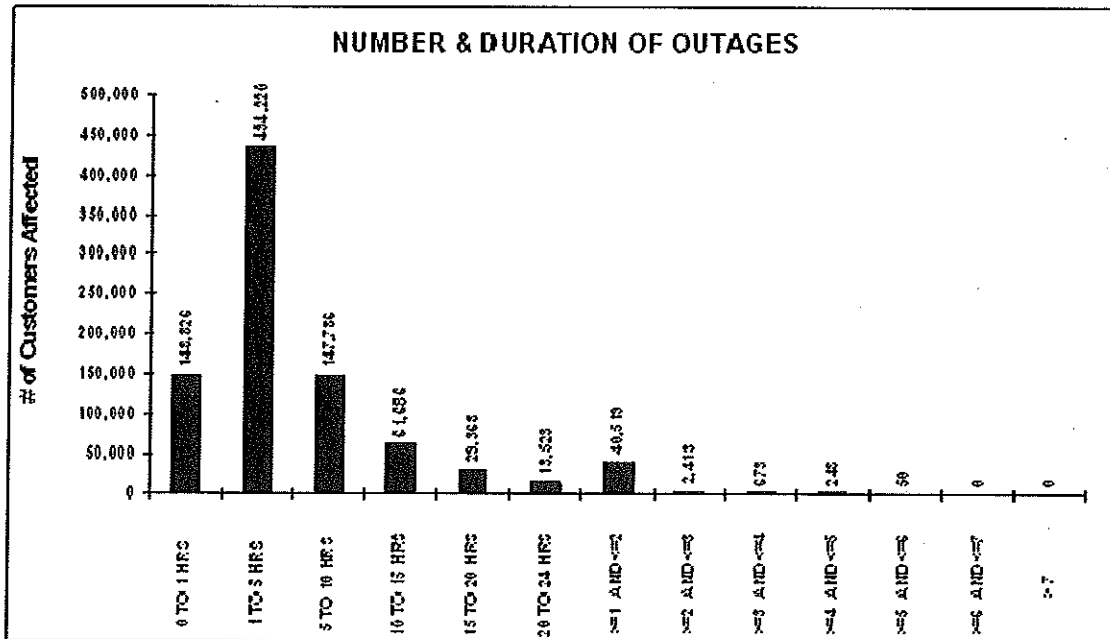
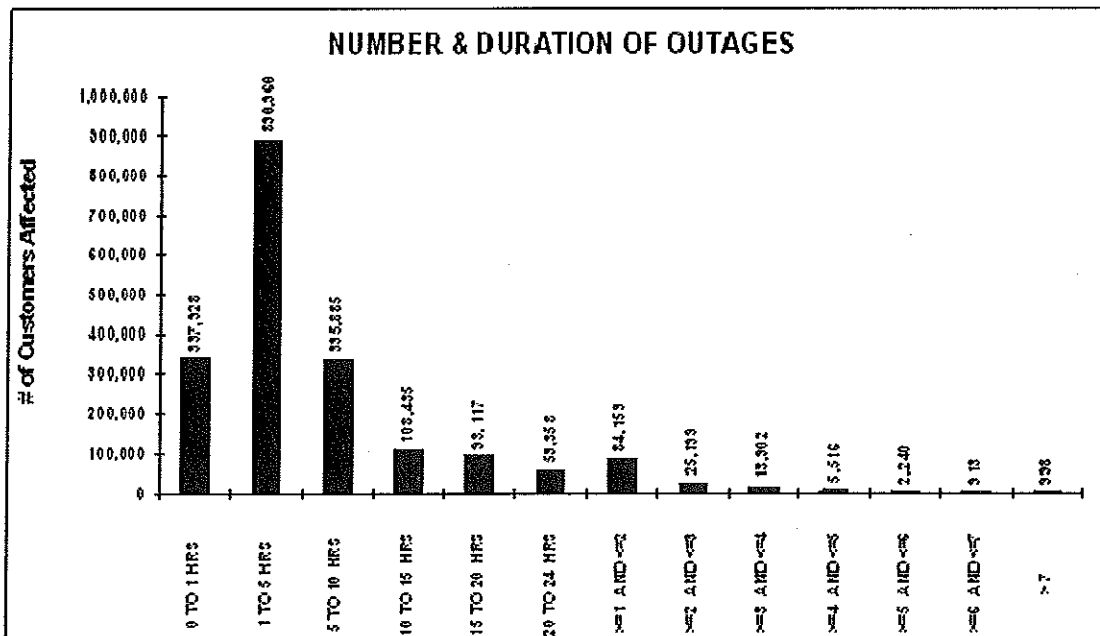


Table 6 – December 13-21, 2002 Outage Event Duration Summary

Outage Duration	Date of Outage	Description of Outage	Number of Customer Interruptions
0 TO 1 HRS	12/13-21/2002	Noted in Table 4	337,928
1 TO 5 HRS	"	"	890,960
5 TO 10 HRS	"	"	335,885
10 TO 16 HRS	"	"	108,435
15 TO 20 HRS	"	"	93,117
20 TO 24 HRS	"	"	53,358
>=1 AND <=2 Days	"	"	84,153
>=2 AND <=3 Days	"	"	25,199
>=3 AND <=4 Days	"	"	13,902
>=4 AND <=5 Days	"	"	5,516
>=5 AND <=6 Days	"	"	2,240
>=6 AND <=7 Days	"	"	913
> 7 Days	"	"	998

Note: The number of customer outages segmented by restoration period requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown above is what PG&E has been able to reconstruct from several databases and may have a margin of error of around 5%.

Figure 2 – December 13-21, 2002 Outage Event Duration Summary



SECTION 8

Attachment 5

SECTION C

Customers Experiencing >12 Sustained Outages

Customers Experiencing > 12 Sustained Outages During 2011

Table 9 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2011. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 9 – Customers Experiencing > 12 Sustained Outages During 2011

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	CAMP EVERS 2105	35
CENTRAL COAST	ROB ROY 2105	21
DE ANZA	LOS GATOS 1107	192
HUMBOLDT	GARBERVILLE 1102	579
KERN	POSO MOUNTAIN 2101	7
LOS PADRES	SISQUOC 1102	3
NORTH BAY	ALTO 1124	15
NORTH BAY	CALISTOGA 1101	9
NORTH BAY	MONTICELLO 1101	10
NORTH BAY	SILVERADO 2104	121
NORTH VALLEY	CHALLENGE 1101	451
NORTH VALLEY	KANAKA 1101	17
NORTH VALLEY	ORO FINO 1102	56
NORTH VALLEY	VOLTA 1101	464
NORTH VALLEY	WYANDOTTE 1109	4
PENINSULA	WOODSIDE 1101	1
SACRAMENTO	GRAND ISLAND 2225	9
SACRAMENTO	JAMESON 1104	32
SACRAMENTO	KNIGHTS LANDING 1101	2
SIERRA	ALLEGHANY 1101	55
SIERRA	APPLE HILL 2102	272
SIERRA	BONNIE NOOK 1101	12
SIERRA	BONNIE NOOK 1102	60
SIERRA	BRUNSWICK 1102	1
SIERRA	EL DORADO P H 2101	908
SIERRA	PEASE 1104	23
SIERRA	PLACERVILLE 2106	684
SONOMA	COTATI 1103	22
STOCKTON	LODI 1102	4
STOCKTON	SALT SPRINGS 2102	1,154
YOSEMITE	OAKHURST 1103	23
YOSEMITE	RACETRACK SUB 1704	136
YOSEMITE	WESTLEY 1103	145

Customers Experiencing > 12 Sustained Outages During 2010

Table 8 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2011. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 8 – Customers Experiencing > 12 Sustained Outages During 2010

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BIG BASIN 1101	61
CENTRAL COAST	BIG BASIN 1102	40
CENTRAL COAST	CAMP EVERS 2105	33
CENTRAL COAST	POINT MORETTI 1101	29
CENTRAL COAST	ROB ROY 2104	56
CENTRAL COAST	SAN ARDO 1102	14
CENTRAL COAST	WATSONVILLE 2101	1
DE ANZA	CAMP EVERS 2106	79
DE ANZA	LOS GATOS 1106	1
DE ANZA	LOS GATOS 1107	156
DIABLO	CONTRA COSTA 2109	16
DIABLO	KIRKER SUB 2104	3
FRESNO	DUNLAP 1102	57
FRESNO	DUNLAP 1103	318
NORTH BAY	CALISTOGA 1101	14
NORTH BAY	OLEMA 1101	13
NORTH BAY	SILVERADO 2104	2
NORTH COAST	FORT BRAGG STA A 1101	3
NORTH COAST	GARBERVILLE 1101	71
NORTH COAST	GARBERVILLE 1102	234
NORTH COAST	LAKEVILLE 1101	10
NORTH VALLEY	CHALLENGE 1101	19
NORTH VALLEY	ORO FINO 1102	99
PENINSULA	MENLO 1103	22
SACRAMENTO	DIXON 1103	13
SACRAMENTO	GRAND ISLAND 2225	3
SACRAMENTO	MADISON 2101	5
SIERRA	ALLEGHANY 1101	197
SIERRA	APPLE HILL 2102	16
SIERRA	EL DORADO P H 2101	1,162
SIERRA	PLACERVILLE 2106	255
STOCKTON	LOCKEFORD SUB 2102	7
STOCKTON	MANTECA 1706	3
STOCKTON	SALT SPRINGS 2102	170
STOCKTON	STANISLAUS 1702	532
YOSEMITE	CURTIS 1703	38
YOSEMITE	MARIPOSA 2101	9
YOSEMITE	MIWUK SUB 1701	31

Customers Experiencing > 12 Sustained Outages During 2009

Table 8 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2009. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 8 – Customers Experiencing > 12 Sustained Outages During 2009

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BEN LOMOND 1101	169
CENTRAL COAST	BIG BASIN 1102	14
CENTRAL COAST	DOLAN ROAD 1104	1
CENTRAL COAST	POINT MORETTI 1101	8
CENTRAL COAST	ROB ROY 2105	13
DE ANZA	LOS GATOS 1107	441
LOS PADRES	ZACA 1101	1
NORTH COAST	FITCH MOUNTAIN 1113	6
NORTH COAST	GARBERVILLE 1102	321
NORTH VALLEY	CHALLENGE 1101	2
SACRAMENTO	ARBUCKLE 1102	4
SACRAMENTO	COLUSA 1103	6
SACRAMENTO	GRAND ISLAND 2226	13
SACRAMENTO	GRAND ISLAND 2227	7
SACRAMENTO	JAMESON 1104	7
SACRAMENTO	MADISON 2101	15
SIERRA	ALLEGHANY 1101	8
SIERRA	EL DORADO P H 2101	294
STOCKTON	FROGTOWN 1702	86
STOCKTON	WEST POINT 1102	1

Customers Experiencing > 12 Sustained Outages During 2008

Table 5 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2008. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 5 – Customers Experiencing > 12 Sustained Outages During 2008

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BEN LOMOND 0401	6
CENTRAL COAST	BEN LOMOND 1101	699
CENTRAL COAST	BIG BASIN 1101	223
CENTRAL COAST	BIG BASIN 1102	16
CENTRAL COAST	CAMP EVERS 2105	92
CENTRAL COAST	LOMPICO 0401	20
CENTRAL COAST	OTTER 1102	194
CENTRAL COAST	POINT MORETTI 1101	14
CENTRAL COAST	ROB ROY 2104	354
CENTRAL COAST	SOLEDAD 2101	99
DE ANZA	CAMP EVERS 2106	43
DE ANZA	LOS GATOS 1106	166
DE ANZA	LOS GATOS 1107	45
LOS PADRES	SANTA MARIA 1105	306
LOS PADRES	SISQUOC 1102	2
NORTH BAY	NAPA 1107	29
NORTH BAY	SAUSALITO 1102	13
NORTH COAST	ARCATA 1121	7
NORTH COAST	BRIDGEVILLE 1101	6
NORTH COAST	EEL RIVER 1101	10
NORTH COAST	GARBERVILLE 1102	425
NORTH COAST	HOOPA 1101	223
NORTH COAST	OLEMA 1101	14
NORTH COAST	POINT ARENA 1101	3
NORTH COAST	RIO DELL 1102	11
NORTH COAST	WILLOW CREEK 1101	35
NORTH VALLEY	LOGAN CREEK 2102	1
NORTH VALLEY	NORD 1104	1
PENINSULA	MENLO 1103	15
SACRAMENTO	KNIGHTS LANDING 1101	3
SACRAMENTO	MERIDIAN 1101	13
SACRAMENTO	RICE 1101	5
SACRAMENTO	RICE 1103	4
SIERRA	BRUNSWICK 1105	12
SIERRA	EAST NICOLAUS 1101	6
SIERRA	EL DORADO P H 2101	127
SIERRA	MOUNTAIN QUARRIES 2101	65
SIERRA	PLACERVILLE 2106	395
SIERRA	TUDOR 1101	9
STOCKTON	CORRAL 1103	19
YOSEMITE	CURTIS 1703	45
YOSEMITE	MERCED 1114	26
YOSEMITE	ORO LOMA 1106	2

Customers Experiencing > 12 Sustained Outages During 2007

Table 5 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2007. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 5 – Customers Experiencing > 12 Sustained Outages During 2007

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	DOLAN ROAD 1104	33
CENTRAL COAST	ROB ROY 2104	53
DIABLO	BRENTWOOD SUB 2105	17
LOS PADRES	SISQUOC 1102	1
LOS PADRES	ZACA 1101	1
NORTH BAY	NOVATO 1104	8
NORTH BAY	SILVERADO 2102	16
NORTH COAST	BRIDGEVILLE 1102	9
NORTH COAST	MONTE RIO 1111	8
NORTH VALLEY	CHALLENGE 1101	350
NORTH VALLEY	GERBER 1102	22
NORTH VALLEY	JACINTO 1101	2
SACRAMENTO	CORDELIA 1104	57
SACRAMENTO	JAMESON 1104	9
SACRAMENTO	PEABODY 2107	72
SIERRA	EL DORADO P H 2101	10
YOSEMITE	COTTLE 1702	63
YOSEMITE	FIGARDEN SUB. 2110	2

Customers Experiencing > 12 Sustained Outages During 2006

Table 14 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2006. Please note, this list does not mean that all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans

Table 14 – Customers Experiencing > 12 Sustained Outages During 2006

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BEN LOMOND 0401	220
CENTRAL COAST	BEN LOMOND 1101	620
CENTRAL COAST	BIG BASIN 1102	1
CENTRAL COAST	BIG TREES 0402	73
CENTRAL COAST	CAMP EVERS 2105	246
CENTRAL COAST	CASTROVILLE 2103	11
CENTRAL COAST	GREEN VALLEY 2103	4
CENTRAL COAST	HOLLISTER 2104	30
CENTRAL COAST	LOMPICO 0401	175
CENTRAL COAST	ROB ROY 2104	160
DE ANZA	CAMP EVERS 2106	818
DE ANZA	LOS GATOS 1107	58
DIABLO	KIRKER SUB 2104	395
FRESNO	WOODWARD 2108	1
LOS PADRES	CAYUCOS 1102	3
LOS PADRES	OCEANO 1101	20
LOS PADRES	OILFIELDS 1103	57
LOS PADRES	SANTA MARIA 1108	77
LOS PADRES	SISQUOC 1102	4
NORTH BAY	OLEMA 1101	13
NORTH COAST	ARCATA 1121	7
NORTH COAST	COTATI 1103	14
NORTH COAST	GARBERVILLE 1101	19
NORTH COAST	GARBERVILLE 1102	19
NORTH COAST	HOOPA 1101	74
NORTH COAST	JANES CREEK 1103	35
NORTH COAST	MONTE RIO 1111	86
NORTH COAST	RIO DELL 1102	22
NORTH COAST	SONOMA 1107	11
NORTH VALLEY	ESQUON 1103	20
PENINSULA	MENLO 1103	2
SACRAMENTO	DEEPWATER 1107	26
SACRAMENTO	GRAND ISLAND 2225	86
SACRAMENTO	PEABODY 2107	4
SACRAMENTO	PUTAH CREEK 1102	99
SIERRA	APPLE HILL 2102	195
SIERRA	EL DORADO P H 2101	970
SIERRA	PLACERVILLE 2106	309
STOCKTON	MANTECA 1704	64
STOCKTON	MANTECA 1705	140

Customers Experiencing > 12 Sustained Outages During 2005

Table 8 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2005. Please note, this list does not mean all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans

Table 8 – Customers Experiencing > 12 Sustained Outages During 2005

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BIG BASIN 1102	13
CENTRAL COAST	BIG TREES 0402	32
CENTRAL COAST	CAMP EVERS 2104	93
CENTRAL COAST	GREEN VALLEY 2101	1
CENTRAL COAST	ROB ROY 2104	71
CENTRAL COAST	ROB ROY 2105	13
CENTRAL COAST	VIEJO 2202	30
DIABLO	BRENTWOOD SUB 2105	1
DIABLO	CONTRA COSTA 2108	21
FRESNO	DUNLAP 1103	270
FRESNO	KINGSBURG 1116	967
KERN	TEJON 1102	249
LOS PADRES	OILFIELDS 1103	28
LOS PADRES	SISQUOC 1103	151
LOS PADRES	ZACA 1101	1
NORTH BAY	CALISTOGA 1101	49
NORTH BAY	PUEBLO 2103	32
NORTH BAY	SILVERADO 2104	146
NORTH COAST	EEL RIVER 1101	122
NORTH COAST	FRUITLAND 1142	13
NORTH COAST	GARBERVILLE 1101	12
NORTH COAST	GARBERVILLE 1102	10
NORTH COAST	HARTLEY 1101	3
NORTH COAST	MONTE RIO 1111	8
NORTH COAST	OLEMA 1101	10
NORTH COAST	RIO DELL 1102	2
NORTH COAST	WILLITS 1103	6
NORTH COAST	WILLOW CREEK 1101	3
SACRAMENTO	GRAND ISLAND 2224	244
SACRAMENTO	MADISON 1105	14
SACRAMENTO	PUTAH CREEK 1102	44
SIERRA	EL DORADO P H 2101	734
STOCKTON	COLONY 1102	25
STOCKTON	FROGTOWN 1702	19
STOCKTON	MIDDLE RIVER 1101	4
STOCKTON	OLETA 1101	40
YOSEMITE	OAKHURST 1103	4
YOSEMITE	PEORIA FLAT 1701	117
YOSEMITE	SPRING GAP 1701	37
YOSEMITE	STOREY 1109	25
YOSEMITE	VALLEY HOME 1701	30

Customers Experiencing > 12 Sustained Outages During 2004

Table 5 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2004. Please note, this list does not mean all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 5 – Customers Experiencing > 12 Sustained Outages During 2004

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BEN LOMOND 0401	11
CENTRAL COAST	BEN LOMOND 1101	284
CENTRAL COAST	CAMP EVERS 2104	343
CENTRAL COAST	CAMP EVERS 2105	105
CENTRAL COAST	FOREST 0422	30
CENTRAL COAST	GREEN VALLEY 2101	39
CENTRAL COAST	LOS OSITOS 2101	108
CENTRAL COAST	POINT MORETTI 1101	21
CENTRAL COAST	ROB ROY 2104	66
CENTRAL COAST	SOLEDAD 2101	12
DE ANZA	CAMP EVERS 2106	408
DIABLO	BRENTWOOD SUB 2113	16
LOS PADRES	SISQUOC 1103	151
NORTH BAY	MONTICELLO 1101	23
NORTH BAY	NAPA 1102	10
NORTH COAST	GARBERVILLE 1101	29
NORTH COAST	GARBERVILLE 1102	13
NORTH COAST	MOLINO 1101	77
NORTH COAST	OLEMA 1101	18
NORTH COAST	TRINIDAD 1102	13
NORTH VALLEY	LOGAN CREEK 2101	54
NORTH VALLEY	ORO FINO 1102	279
SIERRA	ALLEGHANY 1101	152
STOCKTON	AVENA 1702	17
STOCKTON	WEST POINT 1101	26
YOSEMITE	RIVERBANK 1713	144

Customers Experiencing > 12 Sustained Outages During 2003

Table 6 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2003. Please note, this list does not mean all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 6 - Customers Experiencing > 12 Sustained Outages During 2003

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	BEN LOMOND 0401	6
CENTRAL COAST	BIG BASIN 1101	35
CENTRAL COAST	CAMP EVERS 2104	22
CENTRAL COAST	GREEN VALLEY 2101	38
CENTRAL COAST	LOS OSITOS 2101	6
DE ANZA	CAMP EVERS 2105	90
DE ANZA	LOS GATOS 1106	191
DIABLO	BRENTWOOD SUB 2113	6
DIABLO	CLAYTON 2212	16
NORTH COAST	BRIDGEVILLE 1102	1
NORTH COAST	EEL RIVER 1101	121
NORTH COAST	GARBERVILLE 1101	5
NORTH COAST	GARBERVILLE 1102	7
NORTH COAST	HARTLEY 1101	27
NORTH COAST	MENDOCINO 1101	145
NORTH COAST	MONTE RIO 1111	78
SACRAMENTO	MADISON 1105	15
STOCKTON	HERDLYN 1103	32
YOSEMITE	GUSTINE 1102	2
YOSEMITE	MENDOTA 1102	239

Customers Experiencing > 12 Sustained Outages During 2002

Table 7 lists all circuits where one or more customers on a circuit experienced more than 12 sustained outages in 2002. Please note, this list does not mean all the customers on the circuit experienced more than 12 outages.

PG&E is addressing the necessary portions of these circuits as part of the overall service reliability improvement plans.

Table 7 - Customers Experiencing > 12 Sustained Outages During 2002

Division	Feeder Name	Customers Experiencing > 12 Outages
CENTRAL COAST	CAMP EVERS 2104	90
CENTRAL COAST	LOMPICO 0401	4
DIABLO	CONTRA COSTA 2109	8
FRESNO	DEVILS DEN 1101	1
NORTH BAY	CALISTOGA 1102	52
NORTH BAY	SILVERADO 2105	31
NORTH COAST	EEL RIVER 1101	89
NORTH COAST	GARBERVILLE 1101	38
NORTH COAST	GARBERVILLE 1102	76
NORTH COAST	MONTE RIO 1111	2
NORTH VALLEY	LOGAN CREEK 2101	53
SAN JOSE	LLAGAS 2104	28
YOSEMITE	COTTLE 1702	3