



**Pacific Gas and  
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**BY HAND DELIVERY**

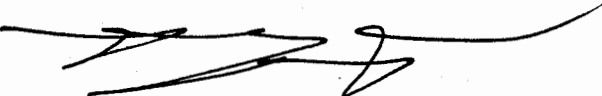
Stephen Larson, Executive Director  
California Public Utilities Commission  
505 Van Ness Ave.  
San Francisco, CA 94102

Re: Annual Electric Distribution Reliability Report (R.96-11-004)

Dear Mr. Larson :

Pursuant to Decision No. 96-09-045, Appendix A, page 3 and Decision No. 04-10-034, page 104 and Appendix A, page A-107, enclosed is a copy of Pacific Gas and Electric Company's Electric Distribution Reliability Report. An electronic version is also being sent to you via e-mail for posting on the Commission's website.

Sincerely,



Stephen L. Garber

SLG/pak

cc: Sean Gallagher, Director - Energy Division  
Marty Lyons - ORA

## General

This is the 2006 Reliability Report for Pacific Gas & Electric Company as required by Decision 96-09-045. In addition, this report includes 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 (1997-2006)
2.	Significant Outage Events Of 2006
3.	Customers Experiencing >12 Sustained Outages In 2006
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 - Description of Master Meter Calculation Error
8.	Attachment 5 - Governmental Declarations of Emergency
9.	Attachment 6 - Historical (1997-2005) Outage Information From Prior Reports

PG&E maintains historical 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). PG&E used historical data to compile the information contained in this report.

## SECTION 1

### System Indices (1997-2006)

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

Note that PG&E is submitting revised system results for 2000 to 2005. PG&E determined that for 2000 to 2005, an incorrect total customer count was used when calculating the system indices. PG&E has found that since October of 2000, it was including multiple residential services beyond a master meter (e.g., mobile home park residents) in the denominator (customer count) of the SAIDI, SAIFI, and MAIFI formulas, even though a system upgrade led to those services no longer being included in the customer outage data in the numerator of the formulas. Since CAIDI by definition is not based on the total customers and because the prior CAIDI values were applied consistently based on the recorded customer outage minutes and the total customers affected, the prior CAIDI calculations were applied correctly.

For October 2000 onwards, the most accurate and most practical approach is to exclude the multiple services beyond a master meter when calculating the system indices. A detailed explanation of the master meter error is provided in Attachment 4.<sup>1/</sup>

<sup>1/</sup> PG&E is filing an Advice letter with the Commission to increase the 2005 Reliability Performance Incentive Mechanism (RPIM) penalty based upon the revised 2005 SAIDI results. As PG&E has previously discussed with the Energy Division, PG&E anticipates making its RPIM filing for 2006 in July, after completing the audit ordered by Resolution E-4003. Until the audit has been completed the reliability results provided by in this report should be considered preliminary.

**Table 1 - System Indices (1997-2006)**

(Includes Transmission, Distribution and Generation related outages)

YEAR	Major Events Included				Major Events Excluded			
	SAIDI	SAIFI	MAIFI	CAIDI	SAIDI	SAIFI	MAIFI	CAIDI
1997	171.4	1.711	4.419	100.2	161.8	1.648	4.326	98.2
1998	317.1	2.145	3.821	147.9	180.1	1.669	3.397	107.9
1999	157.3	1.503	2.405	104.7	156.8	1.499	2.397	104.6
2000 (*)	170.7	1.438	2.302	118.7	170.2	1.435	2.301	118.6
2001(*)	261.2	1.647	2.360	158.6	222.1	1.520	2.217	146.1
2002(*)	400.8	1.763	2.698	227.3	146.7	1.174	2.095	125.0
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	1.426	1.872	143.9
2005(*)	249.4	1.549	1.870	161.0	187.1	1.408	1.763	132.9
2006	280.5	1.728	1.716	162.3	150.8	1.273	1.495	118.5

(\*) Revised system indices to reflect corrected customer count. (See Attachment 4 for further detail.)

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:

- (a) Generation related outages are included in Table 1 but not in Tables 2 and 3;
- (b) 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 automatic recording (EON) devices do not distinguish between the two systems.

**Table 2 - Distribution System Indices (1997-2006)**

(Excludes transmission and generation related outages)

YEAR	Major Events Included			Major Events Excluded		
	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
1997	157.4	1.569	100.3	148.5	1.514	98.1
1998	245.0	1.819	134.7	157.4	1.499	105.0
1999	145.2	1.344	108.0	144.9	1.341	108.0
2000 (*)	154.2	1.314	117.3	153.7	1.312	117.1
2001(*)	239.7	1.509	158.8	201.8	1.389	145.3
2002(*)	358.1	1.615	221.7	136.2	1.086	125.4
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(*)	211.0	1.353	156.0	157.8	1.223	129.0
2006	251.7	1.535	163.9	136.4	1.137	120.0

(\*) Revised system indices to reflect corrected customer count.

**Table 3 - Transmission System Indices (1997-2006)**

(Excludes distribution and generation related outages)

YEAR	Major Events Included			Major Events Excluded		
	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
1997	13.8	0.141	98.2	13.2	0.134	98.5
1998	72.0	0.325	221.8	22.7	0.170	133.6
1999	12.1	0.160	76.1	11.9	0.158	75.2
2000 (*)	15.2	0.110	138.9	15.2	0.110	138.9
2001(*)	21.6	0.138	156.7	20.3	0.132	154.5
2002(*)	42.1	0.147	285.9	10.5	0.088	120.1
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	28.8	0.193	149.2	14.3	0.136	105.3

(\*) Revised system indices to reflect corrected customer count.

### **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 four excludable major events in 2006, as defined in Appendix A of D. 96-09-045. In calculating the major event exclusions in this report, PG&E is utilizing the same methodology that it used in its 2005 RPIM, and which was accepted by the Commission in Resolution E-4003 approving PG&E's Advice Letter reporting its 2005 RPIM results. More specifically, PG&E's exclusions for major events focus only on the most severe days within the wider ranges of dates in governmental emergency declarations. In its Advice Letter reporting the 2005 RIM results, PG&E explained its process for applying state of emergency proclamations to determine what divisions and outages should be excluded from the calculation of system reliability indices. PG&E used the same type of process determining the major event exclusions for 2006. This methodology is as follows:

- Identify the counties in the governmental declaration of a disaster that are in PG&E's service territory;
- Determine the percentage of the area of each division covered by the counties identified in the governmental declaration;
- Outages in the divisions with 50 percent or more of their area included in a declared state of emergency or natural disaster area are considered for exclusion. Divisions with less than 50 percent of their area included in a declared state of emergency or natural disaster area are not considered for exclusion;
- Determine the daily average, by month, of the number of sustained outages, customer minutes and customer interruptions for each division using five years (2001-2005) of data;
- For each division, during the same time periods under consideration, PG&E compares the daily number of sustained outages, customer minutes and customer interruptions to the corresponding five-year average. PG&E excludes any day where the number of sustained outages AND customer minutes AND customer interruptions for EACH division exceed the five-year average for that division by a factor of two or more.

The first event was a continuation of a severe storm that commenced on December 30, 2005. PG&E is excluding January 1 and January 2, 2006 for the entire system based on the 10 percent criteria from Appendix A. In addition, this event includes the Las Padres division for January 3 through 5 since the storm continued to impact this area. For reporting purposes, this event will be shown throughout this report as the January 1 to January 5 event.

The second event was a series of winter storms that significantly affected specific divisions on specific dates. The Governor issued a proclamation on May 10, 2006 for 39 counties within PG&E's service territory due to heavy rainfall and severe road damage occurring between December 19, 2005 and April 16, 2006. In addition to the Governor's declaration, on June 22, 2006 the United States Department of Agriculture (USDA) made a natural disaster designation for numerous counties within PG&E's service territory due to unprecedented rainfall and severe weather conditions experienced between December 17, 2005 and April 26, 2006. In Using the methodology described above PG&E has excluded outages in fourteen divisions for the dates shown in Table 4 below.

The third event was a pervasive heat storm in July that drove all-time high energy use. In July 2006, northern and central California suffered temperatures on a system basis far in excess of normal, experiencing the highest three-day average temperatures in over 57 years. During the period of July 21-27, 2006, PG&E experienced 243 sustained outages per day compared to the 5-year July average of 60 sustained outages per day. As the Commission has noted, this was "an unexpected and unprecedented heat storm that challenged the electric resources of the state." (Decision 07-01-041, at mimeo page 2.) In September 2006, the USDA granted the request of Governor Arnold Schwarzenegger and the State's Director of Emergency Services for a federal disaster declaration due to the record-setting heat storm during the period from July 1 to July 31, 2006. In November 2006, the USDA included an additional 6 counties within PG&E's service territory on the disaster declaration. In addition, the Small Business Administration and several counties also issued individual declarations of emergency. Using the methodology described above and approved in Resolution E-4003, PG&E has excluded outages in sixteen divisions for the dates described in Table 4 below.

The fourth event was a severe storm that commenced on December 26, 2006. PG&E is excluding 48 hours during the period from December 26 to December 28, 2006<sup>2/</sup> for the entire system based on the 10 percent criteria from Appendix A. For reporting purposes, this event will be shown throughout this report as the December 26 to December 28 event.

Table 4 summarizes each of the adjustments described above.

**Table 4 - Summary of Adjustments to 2006 SAIDI and SAIFI Data**

Line #	Description	Division or System	Date	SAIDI	SAIFI
1	<b>Year End Results Including All Outages</b>				
2	January 1 – December 31, 2006	System	Jan – Dec, 2006	280.5	1.728
3	<b>January 1 Major Event Exclusions</b>				
4		System	January 1-2, 2006	33.6	0.092
5		Los Padres	January 3-5, 2006	0.93	0.004
6	<b>Winter Storm Exclusions</b>				
7	<b>February 26 – 28 Storm</b>	Central Coast	February 27-28, 2006	2.28	0.008
8		Diablo	February 27-28, 2006	0.34	0.003
9		East Bay	February 27, 2006	0.23	0.002
10		Fresno	February 27, 2006	0.13	0.001
11		Los Padres	February 27, 2006	0.06	0.001

2/ PG&E utilizes a rolling 48 hour window to determine whether an event meets the 10% major event criteria. (See Resolution E-4003, at p. 5.) PG&E is excluding the 48 hours from 8:00AM December 26 to 8:00AM December 28, 2006, which is when 10% of the system customers were impacted.

12		Mission	February 28, 2006	0.07	0.001
13		North Bay	February 27-28, 2006	1.66	0.005
14		North Coast	February 26-27, 2006	1.21	0.006
15		North Valley	February 27-28, 2006	0.40	0.002
16		Peninsula	February 27-28, 2006	2.95	0.017
17		Sacramento	February 27, 2006	0.12	0.0004
18		Sierra	February 27-28, 2006	2.38	0.010
19		Stockton	February 27, 2006	0.69	0.004
20		Yosemite	February 27, 2006	0.34	0.003
21					
22	<b>March 2 – 5 Storm</b>	Central Coast	March 3, 2006	0.12	0.001
23		Fresno	March 3, 2006	0.38	0.003
24		Los Padres	March 3, 2006	0.07	0.001
25		North Coast	March 3-5, 2006	2.95	0.009
26		Sierra	March 2-3, 2006	0.51	0.004
27		Stockton	March 3, 2006	0.39	0.002
28		Yosemite	March 3-4, 2006	0.59	0.003
29					
30	<b>March 9 -14 Storm</b>	Central Coast	March 9-12, 2006	2.83	0.008
31		Los Padres	March 12, 2006	0.51	0.002
32		North Coast	March 10, 2006	0.79	0.002
33		Peninsula	March 10, 2006	0.32	0.05
34		Stockton	March 11-14, 2006	2.46	0.007
35		Yosemite	March 10-11, 2006	1.97	0.003
36					
37	<b>April 4 – 5 Storm</b>	Central Coast	April 4-5, 2006	0.53	0.005
38		Fresno	April 4-5, 2006	2.50	0.011
39		Los Padres	April 4, 2006	0.03	0.0003
40		Sierra	April 4-5, 2006	0.85	0.002
41		Stockton	April 4-5, 2006	0.40	0.002
42	<b>July Heat Storm Exclusions</b>				
43		Central Coast	July 22, 2006	0.19	0.002
44		De Anza	July 21-25, 2006	0.66	0.003
45		Diablo	July 21-26, 2006	8.32	0.030
46		East Bay	July 22-23, 2006	0.30	0.002
47		Fresno	July 21-24, 2006	2.12	0.014
48		Kern	July 24-25, 2006	0.28	0.003
49		Los Padres	July 21-26, 2006	0.88	0.007
50		Mission	July 21-26, 2006	2.20	0.009
51		North Bay	July 21-24, 2006	0.85	0.007
52		North Coast	July 22-23, 2006	0.62	0.003
53		Peninsula	July 22-24, 2006	0.27	0.002
54		Sacramento	July 21-24, 2006	1.07	0.004
55		San Jose	July 21-27, 2006	10.59	0.025
56		Sierra	July 23, 2006	0.24	0.001
57		Stockton	July 21-23, 2006	1.23	0.008
58		Yosemite	July 22-23, 2006	0.82	0.004
59	<b>December 26-28 Major Event</b>				
59		System	Dec 26-28 2006	33.35	0.101
60	<b>Year End Results With Exclusions</b>				
61				150.8	1.27

## **SECTION 2**

### **Significant Outage Events Of 2006**

Table 5 lists the ten largest outage events experienced during 2006. 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 3 - Ten Largest 2000 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 <sup>th</sup> , accompanied by rainfall totals ranging from ½ to 3 inches. Gusty west to northwest winds were recorded after the front passed on Dec 27 <sup>th</sup> . 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 <sup>th</sup>	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.



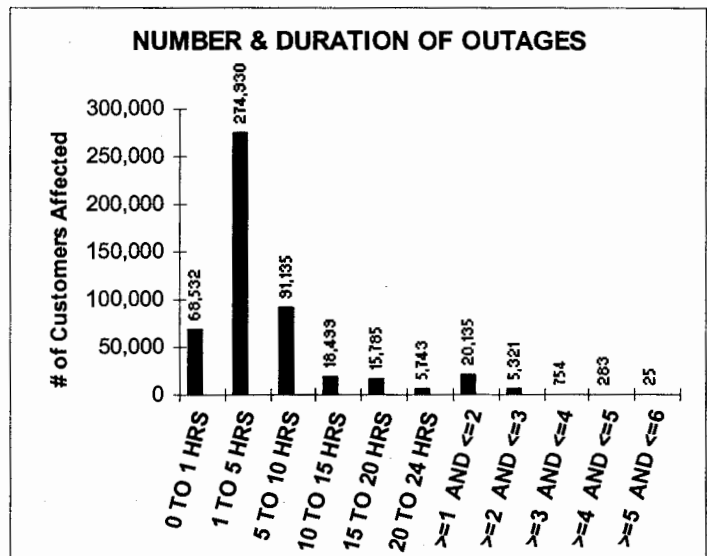
Of the ten largest events listed in Table 5 the following events met the CPUC definition of a major event:

- 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%.

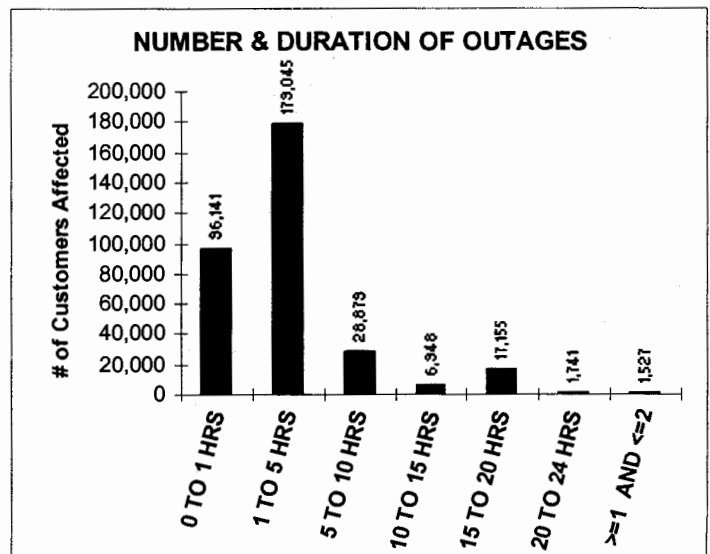
**Table 6/ Figure 1 – January 1-5, 2006 Outage Event Duration Summary**

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



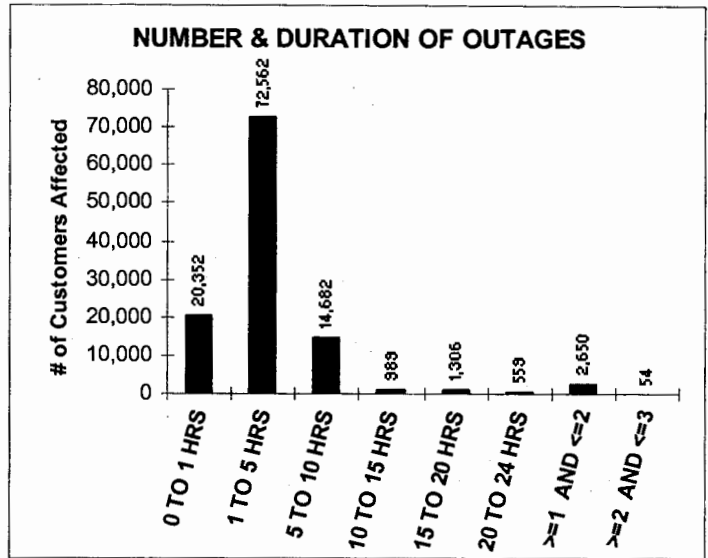
**Table 7/ Figure 2 – February 26-28, 2006 Outage Event Duration Summary**

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



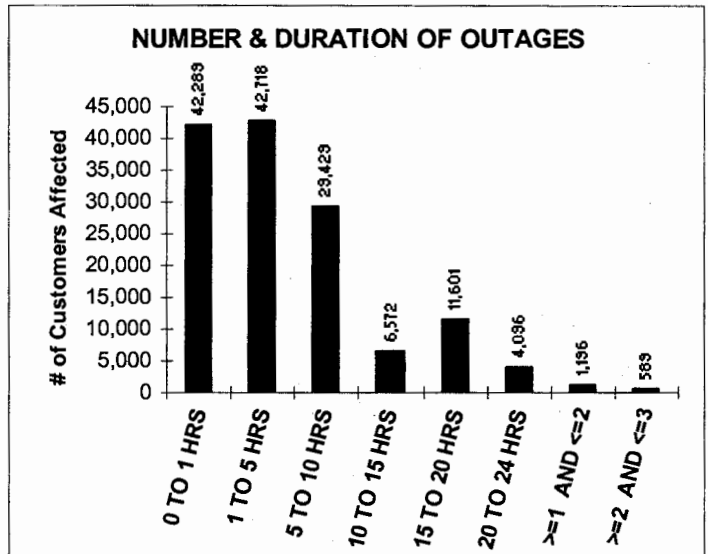
**Table 8/ Figure 3 – March 2-5, 2006 Outage Event Duration Summary**

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



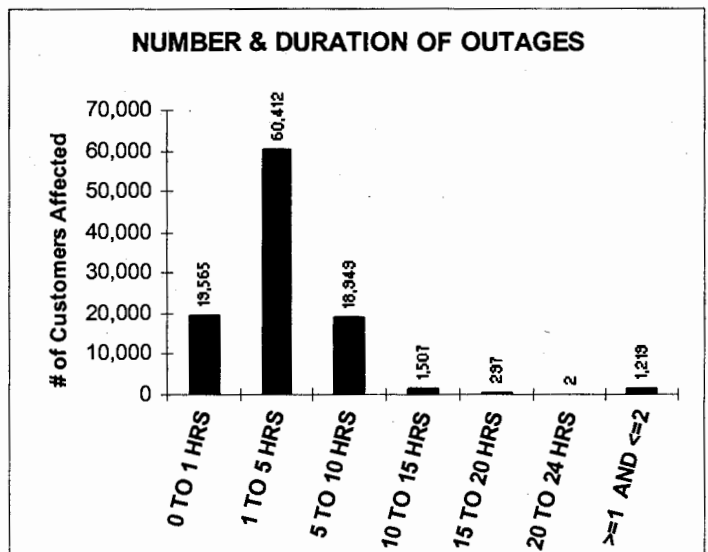
**Table 9/ Figure 4 – March 9-14, 2006 Outage Event Duration Summary**

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



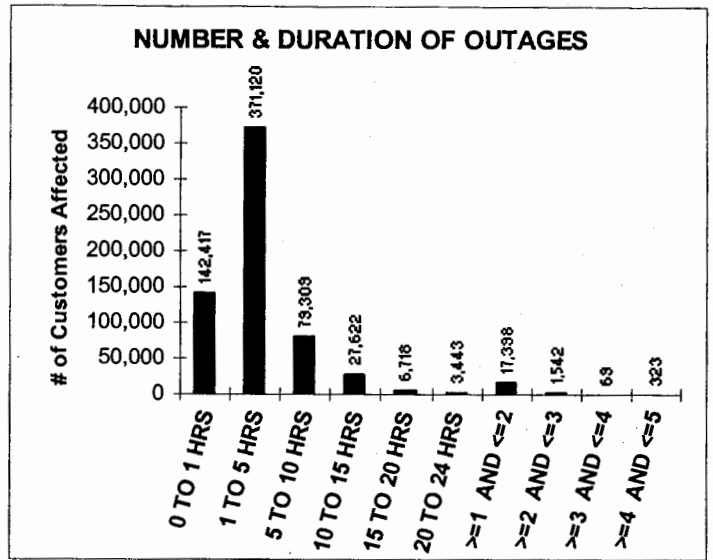
**Table 10/ Figure 5 – April 4-5, 2006 Outage Event Duration Summary**

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



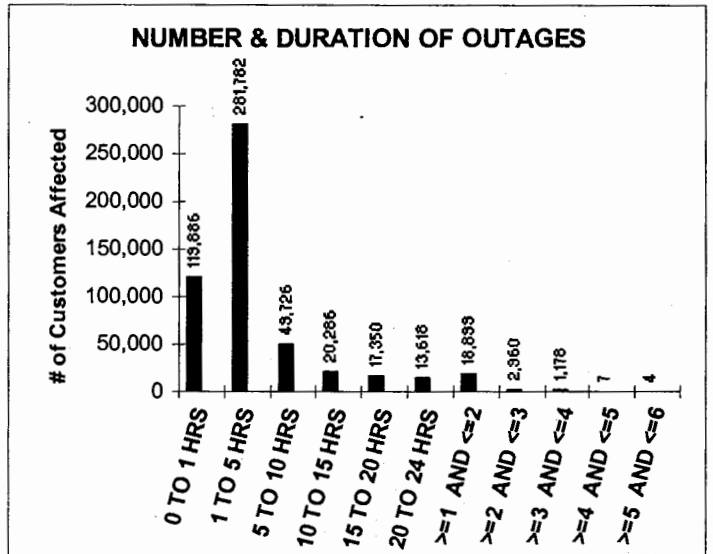
**Table 11/ Figure 6 – July 21-27, 2006 Outage Event Duration Summary**

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



## SECTION 3

### Customers Experiencing > 12 Sustained Outages During 2006

Table 13 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 13 – 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

**SECTION 4**

**Attachment 1**

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

Pacific Gas and Electric  
Division Reliability Indices  
2000-2006  
(Excluding Major Events)

The 2001-2005 data in this Section 4 has been revised to reflect the corrected customer count. See Attachment 4 for a detailed explanation.

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	CENTRAL COAST	344.3	2.354	4.118	146.2
2002	CENTRAL COAST	222.8	1.503	2.634	148.2
2003	CENTRAL COAST	221.5	1.403	2.936	157.9
2004	CENTRAL COAST	488.2	2.624	3.726	186.1
2005	CENTRAL COAST	323.3	2.310	3.291	140.0
	01-05 Avg	320.0	2.039	3.341	155.7
2006	CENTRAL COAST	180.8	1.491	2.498	121.3
	% Difference	-43.5%	-26.9%	-25.2%	-22.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	DE ANZA	191.8	1.275	1.745	150.5
2002	DE ANZA	107.2	0.884	1.453	121.3
2003	DE ANZA	117.1	0.905	1.687	129.3
2004	DE ANZA	253.6	1.384	1.862	183.2
2005	DE ANZA	102.2	1.047	1.943	97.6
	01-05 Avg	154.4	1.099	1.738	136.4
2006	DE ANZA	122.4	0.936	1.455	130.8
	% Difference	-20.7%	-14.8%	-16.3%	-4.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	DIABLO	106.9	1.155	2.276	92.6
2002	DIABLO	127.9	1.418	1.551	90.2
2003	DIABLO	153.0	1.416	1.558	108.1
2004	DIABLO	147.0	1.365	1.482	107.7
2005	DIABLO	185.7	1.459	1.744	127.3
	01-05 Avg	144.1	1.363	1.722	105.2
2006	DIABLO	130.7	1.238	1.388	105.6
	% Difference	-9.3%	-9.1%	-19.4%	0.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	EAST BAY	150.8	1.237	1.083	121.9
2002	EAST BAY	118.6	1.039	0.962	114.1
2003	EAST BAY	122.4	1.172	1.252	104.4
2004	EAST BAY	144.0	1.187	1.589	121.3
2005	EAST BAY	162.5	1.267	1.150	128.2
	01-05 Avg	139.7	1.180	1.207	118.0
2006	EAST BAY	138.8	1.060	0.882	131.0
	% Difference	-0.6%	-10.2%	-26.9%	11.0%

Pacific Gas and Electric  
Division Reliability Indices  
2000-2006  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	FRESNO	191.6	1.347	3.009	142.2
2002	FRESNO	165.9	1.364	2.469	121.6
2003	FRESNO	212.6	1.544	2.214	137.7
2004	FRESNO	217.6	1.321	1.725	164.8
2005	FRESNO	309.3	1.934	1.899	160.0
	01-05 Avg	219.4	1.502	2.263	145.3
2006	FRESNO	202.5	1.688	2.159	120.0
	% Difference	-7.7%	12.4%	-4.6%	-17.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	KERN	169.7	1.145	1.461	148.2
2002	KERN	157.5	1.251	0.883	125.9
2003	KERN	119.2	1.149	1.112	103.7
2004	KERN	149.1	1.275	1.402	116.9
2005	KERN	166.7	1.287	1.612	129.6
	01-05 Avg	152.4	1.221	1.294	124.9
2006	KERN	177.6	1.586	1.668	112.0
	% Difference	16.5%	29.9%	28.9%	-10.3%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	LOS PADRES	154.5	1.488	3.268	103.8
2002	LOS PADRES	128.3	1.249	2.373	102.7
2003	LOS PADRES	117.4	1.333	2.222	88.0
2004	LOS PADRES	167.7	1.445	2.239	116.0
2005	LOS PADRES	162.2	1.254	1.916	129.3
	01-05 Avg	146.0	1.354	2.404	108.0
2006	LOS PADRES	155.7	1.442	2.461	107.9
	% Difference	6.6%	6.5%	2.4%	-0.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	MISSION	89.8	1.242	1.152	72.3
2002	MISSION	67.3	0.846	0.927	79.6
2003	MISSION	75.8	0.909	1.067	83.4
2004	MISSION	77.6	1.001	0.975	77.5
2005	MISSION	103.0	1.038	0.984	99.2
	01-05 Avg	82.7	1.007	1.021	82.4
2006	MISSION	77.1	0.882	1.179	87.4
	% Difference	-6.8%	-12.4%	15.5%	6.1%

Pacific Gas and Electric  
Division Reliability Indices  
2000-2006  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	NORTH BAY	165.9	1.408	3.260	117.9
2002	NORTH BAY	145.1	1.272	1.766	114.1
2003	NORTH BAY	177.2	1.619	2.309	109.4
2004	NORTH BAY	213.0	1.622	2.638	131.3
2005	NORTH BAY	108.5	1.066	1.982	101.8
	01-05 Avg	161.9	1.397	2.391	114.9
2006	NORTH BAY	123.8	0.936	1.301	132.3
	% Difference	-23.6%	-33.0%	-45.6%	15.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	NORTH COAST	384.2	2.244	2.311	171.2
2002	NORTH COAST	237.1	1.253	6.622	189.2
2003	NORTH COAST	346.5	1.804	2.147	192.1
2004	NORTH COAST	301.1	1.690	1.823	178.2
2005	NORTH COAST	265.2	1.548	2.149	171.3
	01-05 Avg	306.8	1.708	3.010	180.4
2006	NORTH COAST	233.1	1.453	1.127	160.4
	% Difference	-24.0%	-14.9%	-62.6%	-11.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	NORTH VALLEY	447.2	2.313	3.525	193.3
2002	NORTH VALLEY	239.8	1.480	3.877	162.0
2003	NORTH VALLEY	494.1	1.879	2.946	263.0
2004	NORTH VALLEY	266.9	1.566	2.936	170.4
2005	NORTH VALLEY	267.7	1.733	2.208	154.5
	01-05 Avg	343.1	1.794	3.098	188.6
2006	NORTH VALLEY	279.0	2.092	2.009	133.4
	% Difference	-18.7%	16.6%	-33.2%	-29.3%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	PENINSULA	158.1	1.306	2.192	121.1
2002	PENINSULA	110.6	1.046	1.735	105.7
2003	PENINSULA	136.3	1.248	1.696	109.1
2004	PENINSULA	142.9	1.243	1.964	114.9
2005	PENINSULA	100.4	0.934	1.333	107.5
	01-05 Avg	129.7	1.155	1.784	111.7
2006	PENINSULA	94.3	1.029	1.085	91.6
	% Difference	-27.3%	-10.9%	-39.2%	-18.1%



Pacific Gas and Electric  
Division Reliability Indices  
2000-2006  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	SACRAMENTO	225.8	1.217	2.396	185.6
2002	SACRAMENTO	172.7	1.334	2.620	129.5
2003	SACRAMENTO	224.0	1.185	2.465	189.1
2004	SACRAMENTO	191.4	1.294	1.861	147.9
2005	SACRAMENTO	175.6	1.131	1.825	155.3
	01-05 Avg	197.9	1.232	2.233	161.5
2006	SACRAMENTO	152.9	1.184	1.991	129.2
	% Difference	-22.7%	-3.9%	-10.9%	-20.0%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	SAN FRANCISCO	97.4	0.973	0.328	100.0
2002	SAN FRANCISCO	77.1	0.715	0.379	107.8
2003	SAN FRANCISCO	308.6	1.219	0.313	253.2
2004	SAN FRANCISCO	86.9	0.905	0.246	96.0
2005	SAN FRANCISCO	107.3	1.006	0.326	106.6
	01-05 Avg	135.5	0.964	0.318	132.7
2006	SAN FRANCISCO	67.0	0.823	0.275	81.4
	% Difference	-50.5%	-14.6%	-13.6%	-38.7%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	SAN JOSE	112.5	1.123	1.115	100.1
2002	SAN JOSE	114.3	0.982	0.807	116.4
2003	SAN JOSE	165.0	1.296	0.975	127.3
2004	SAN JOSE	143.4	1.167	0.770	122.9
2005	SAN JOSE	101.3	0.982	0.729	103.2
	01-05 Avg	127.3	1.110	0.879	114.0
2006	SAN JOSE	84.6	0.802	0.898	105.5
	% Difference	-33.5%	-27.7%	2.1%	-7.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	SIERRA	599.0	2.054	3.064	291.6
2002	SIERRA	183.1	1.245	2.233	147.1
2003	SIERRA	234.1	1.534	2.963	152.6
2004	SIERRA	304.0	1.647	2.585	184.6
2005	SIERRA	166.6	1.232	1.756	135.2
	01-05 Avg	297.4	1.542	2.520	182.2
2006	SIERRA	198.5	1.413	0.940	140.5
	% Difference	-33.2%	-8.4%	-62.7%	-22.9%

Pacific Gas and Electric  
Division Reliability Indices  
2000-2006  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	STOCKTON	279.0	1.851	1.609	150.7
2002	STOCKTON	187.9	1.371	1.900	137.1
2003	STOCKTON	217.9	1.817	1.952	119.9
2004	STOCKTON	258.5	1.621	2.692	159.5
2005	STOCKTON	260.7	2.293	2.936	113.7
	01-05 Avg	240.8	1.791	2.218	136.2
2006	STOCKTON	136.9	1.445	2.295	94.8
	% Difference	-43.1%	-19.3%	3.5%	-30.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	YOSEMITE	331.5	2.197	4.460	150.9
2002	YOSEMITE	143.1	1.311	3.442	109.1
2003	YOSEMITE	214.8	1.708	3.990	125.8
2004	YOSEMITE	249.2	1.832	3.312	136.0
2005	YOSEMITE	291.0	2.095	3.634	138.9
	01-05 Avg	245.9	1.829	3.768	132.1
2006	YOSEMITE	240.9	1.983	2.778	121.5
	% Difference	-2.2%	8.3%	-26.3%	-8.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2001	SYSTEM	222.1	1.520	2.217	146.1
2002	SYSTEM	146.7	1.174	2.095	125.0
2003	SYSTEM	201.8	1.389	1.874	145.3
2004	SYSTEM	205.1	1.426	1.872	143.9
2005	SYSTEM	187.1	1.408	1.763	132.9
	01-05 Avg	192.6	1.383	1.964	138.6
2006	SYSTEM	150.8	1.273	1.495	118.5
	% Difference	-21.7%	-8.0%	-23.9%	-14.5%

**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
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
07/20/06 – 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
12/30/2005 - 01/05/2006	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.	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
11/24/2001	Strong early-season storm with gusty winds (over 50 mph at many locations), heavy rains (.75 to 2+ inches in a 24-hour period) and mountain snows.	10% customer criteria
09/06/2001 - 09/07/2001	North Valley Division wildfires.	Declared State of Emergency
9/3/2000	North Bay Division earthquake - Napa area.	Declared State of Emergency
10/16/1999	North Valley Division wildfires.	Declared State of Emergency
08/23/1999 - 08/25/1999	North Valley Division wildfires.	Declared State of Emergency
01/31/1998 - 02/11/1998	A series of weather systems pounded northern and central California bringing heavy rains and periods of strong winds. Coastal and coastal mountain areas south of Cape Mendocino were hardest hit.	10% customer criteria
12/8/1998	San Francisco, Northern Peninsula Outage – Human error. Refer to PG& E's "December 8 1998 Outage Investigation Report" dated January 25, 1999 for complete details.	10% customer criteria
09/27/1997 - 09/29/1997	Sierra Division wildfires.	Declared State of Emergency
12/29/1996 - 01/04/1997	Series of warm, moisture-laden storms crossed the service territory during the last days of December 96 and the first days of January 97. Heavy rainfall and high elevation rain melting the Sierra snowpack triggered widespread flooding which resulted in a state of emergency being declared in 37 counties during the first week of January.	Declared State of Emergency

**SECTION 7**

**Attachment 4**

**Description of Master Meter Calculation Error**

In the course of reviewing the data for this report, PG&E uncovered an error in its SAIDI, SAIFI, and MAIFI calculations for years 2000-2005. Prior to October 2000, PG&E had included the multiple residential services beyond master meters when calculating the total minutes of sustained customer interruptions (for SAIDI), the total number of sustained customer interruptions (for SAIFI), the total number of momentary customer interruptions (for MAIFI), and the total number of customers (the denominator for the three formulas). The formula essentially was as follows:

**SAIDI, SAIFI, and MAIFI Calculations (Prior to October 2000)**

$$\begin{aligned}
 \text{SAIDI} &= \frac{(\text{Total Customer Minutes}) + (\text{Minutes for Multiple Services beyond Master Meter})}{(\text{Total Customers}) + (\text{Total Multiple Services beyond Master Meter})} \\
 \text{SAIFI} &= \frac{(\text{Total Sustained Customer Interruptions}) + (\text{Sustained Interruptions for Multiple Services beyond Master Meter})}{(\text{Total Customers}) + (\text{Total Multiple Services beyond Master Meter})} \\
 \text{MAIFI} &= \frac{(\text{Total Momentary Customer Interruptions}) + (\text{Momentary Interruptions for Multiple Services beyond Master Meter})}{(\text{Total Customers}) + (\text{Total Multiple Services beyond Master Meter})}
 \end{aligned}$$

This changed, however, as a result of certain system upgrades. Prior to the Fall of 1999, PG&E utilized a so-called DEDSA system, which consisted of computer hardware physically located in local offices. In the Fall of 1999, PG&E converted to its current CEDSA system (due to Y2K issues), which consists of computer hardware in a central location. This did not have an effect right away, because the outage tool was not ready to be upgraded to use CEDSA at that time and a temporary software solution was adopted to use a modified DEDSA database for preparing the outage statistics through late 2000. Prior to and during this time, the outage database was still calculating the outages for the multiple services beyond the master meters. In October 2000, however, PG&E upgraded to its new OUTAGE reporting program designed specifically to use the newer CEDSA database. From that time on, the OUTAGE database no longer recorded the outages for the multiple services beyond the master meters.

When preparing the 2000 SAIDI, SAIFI, and MAIFI results -- well before the RPIM existed -- the personnel responsible for preparing outage statistics decided to add the multiple services beyond the master meters to the total number of electric customers in order to be consistent with the prior years. In recent years, the personnel preparing SAIDI, SAIFI, and MAIFI results had included 242,610 as an estimate of the multiple services beyond the master meters in the denominator of the formula (i.e., counted them as customers). However, they were not able to accurately include, and did not take any special steps to include, outages for the multiple services beyond master meters when totaling the number of customer outages or duration of those outages.

The incorrect formula used from October 2000 to 2005 was as follows<sup>3</sup>:

**Incorrect SAIDI, SAIFI, and MAIFI Calculations (October 2000 – 2005)**

$$\begin{aligned}
 \text{SAIDI} &= \frac{(\text{Total Customer Minutes})}{(\text{Total Customers}) + (\text{Estimated Total Multiple Services beyond Master Meter})} \\
 \text{SAIFI} &= \frac{(\text{Total Sustained Customer Interruptions})}{(\text{Total Customers}) + (\text{Estimated Total Multiple Services beyond Master Meter})} \\
 \text{MAIFI} &= \frac{(\text{Total Momentary Customer Interruptions})}{(\text{Total Customers}) + (\text{Estimated Total Multiple Services beyond Master Meter})}
 \end{aligned}$$

<sup>3</sup> In 2000, the outage data associated with the multiple services beyond the master meters had been included for most of the year (from January through mid October) but not after.



When this came to light PG&E realized that it was erroneously counting the multiple services beyond each master meter in the denominator but not the corresponding outage information in the numerator, skewing the results. PG&E has revised its SAIDI, SAIFI, and MAIFI calculations for 2000 - 2005, removing the estimate of 242,610 multiple services beyond a master meter from the denominator. The revised approach is as follows:

**Corrected SAIDI, SAIFI, and MAIFI Calculations (2001 and beyond)**

$$\text{SAIDI} = \frac{\text{(Total Customer Minutes)}}{\text{(Total Customers)}}$$

$$\text{SAIFI} = \frac{\text{(Total Sustained Customer Interruptions)}}{\text{(Total Customers)}}$$

$$\text{MAIFI} = \frac{\text{(Total Momentary Customer Interruptions)}}{\text{(Total Customers)}}$$

Since CAIDI by definition is not based on the total customers and because the prior CAIDI values were applied consistently based on the recorded customer outage minutes versus the total customers affected, the prior CAIDI calculations were applied correctly as indicated below.

Table 14 and 15 provides a comparison of the revised 2000 to 2005 system indices and the previously submitted 2000 to 2005 system indices.

**Table 14: System indices including major events**

**Major Events Included**

YEAR	Corrected System Indices				Previously Reported System Indices			
	SAIDI	SAIFI	MAIFI	CAIDI	SAIDI	SAIFI	MAIFI	CAIDI
2000	170.7	1.438	2.302	118.7	168.5	1.419	2.276	118.7
2001	261.2	1.647	2.360	158.6	248.7	1.568	2.247	158.6
2002	400.8	1.763	2.698	227.3	381.8	1.680	2.570	227.3
2003	208.0	1.411	1.878	147.5	198.3	1.345	1.791	147.5
2004	205.3	1.426	1.875	143.9	195.9	1.361	1.789	143.9
2005	249.4	1.549	1.870	161.0	238.0	1.480	1.787	160.9

**Table 15: System indices excluding major events**

**Major Events Excluded**

YEAR	Corrected System Indices				Previously Reported System Indices			
	SAIDI	SAIFI	MAIFI	CAIDI	SAIDI	SAIFI	MAIFI	CAIDI
2000	170.2	1.435	2.301	118.6	168.0	1.416	2.275	118.6
2001	222.1	1.520	2.217	146.1	211.4	1.447	2.111	146.1
2002	146.7	1.174	2.095	125.0	139.8	1.118	1.995	125.0
2003	201.8	1.389	1.874	145.3	192.4	1.324	1.787	145.3
2004	205.1	1.426	1.872	143.9	195.7	1.360	1.786	143.9
2005	187.1	1.408	1.763	132.9	178.7	1.344	1.688	132.9

**SECTION 8**

**Attachment 5**

**Governor Proclamations,  
USDA Disaster Declarations,  
and  
SBA Declarations**



**PROCLAMATION**

05/10/2006

**Gov. Schwarzenegger Proclaims State of Emergency for Roadway Damages in 40 Counties, Requests Federal Funds for Repairs**

PROCLAMATION

by the  
Governor of the State of California

WHEREAS conditions of extreme peril to the safety of persons and properties exist within the counties of Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, San Luis Obispo, San Mateo, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Trinity, Tulare, Tuolumne, Yolo, and Yuba as a result of heavy rainfall and severe road damage occurring between December 19, 2005 and April 16, 2006; and

WHEREAS the storms brought unusually heavy precipitation and caused washouts, landslides, slip outs, pavement damage, and sinkholes in California state highways in the above-noted counties; and

WHEREAS emergency conditions exist with respect to storm damages along California roadways as a result of washouts, landslides, slip outs, pavement damage, and sinkholes within these 40 counties; and

WHEREAS the level of damage to the highways is beyond the control of the services, personnel, equipment and facilities of Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, San Luis Obispo, San Mateo, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.

I, ARNOLD SCHWARZENEGGER, Governor of the State of California, find that conditions of extreme peril to the safety of persons and property exist within the Counties of Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, San Luis Obispo, San Mateo, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Trinity, Tulare, Tuolumne, Yolo, and Yuba with as a result of heavy rainfall and severe road damage occurring between December 19, 2005 and April 16, 2006. These storms have caused washouts, landslides, slip outs, pavement damage, and sinkholes within these 40 counties. Because the magnitude of such exceeds the capabilities of the services, personnel, equipment, and facilities of these counties, I find these counties to be in a state of emergency, and under the authority of the California Emergency Services Act, set forth at Title 2, Division 1, Chapter 7 of the California Government Code, commencing with section 8550, I hereby proclaim that a State of Emergency exists in these counties with regard to roadway damages.

Pursuant to this proclamation, I hereby direct the California Department of Transportation to formally request immediate assistance through the Federal Highway Administration's Emergency Relief Program, Title 23, United States Code section 125, in order to obtain federal assistance for highway repairs or reconstruction in Alameda, Alpine, Amador, Butte, Calaveras, Colusa, Contra Costa, Del Norte, El Dorado, Fresno, Humboldt, Kings, Lake, Lassen, Madera, Marin, Mendocino, Merced, Monterey, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, San Luis Obispo, San Mateo, Santa Cruz, Shasta, Sierra, Siskiyou, Solano, Sonoma, Stanislaus, Sutter, Trinity, Tulare, Tuolumne, Yolo, and Yuba Counties.



I FURTHER DIRECT that as soon as hereafter possible, this proclamation be filed in the Office of Secretary of State and that widespread publicity and notice be given to this proclamation.

IN WITNESS WHEREOF I have here unto set my hand and caused the Great Seal of the State of California to be affixed this the tenth day of May 2006.

/s/ Arnold Schwarzenegger

Governor of California





United States Department of Agriculture

Office of the Secretary  
Washington, D.C. 20250

SEP - 7 2006

The Honorable Arnold Schwarzenegger  
Governor  
State of California  
Sacramento, California 95814

Dear Governor Schwarzenegger:

This is in response to your letter of August 1, 2006; and to your letter of August 3, 2006, signed by Henry Renteria, Director of the Governor's Office of Emergency Services, requesting a disaster designation for California counties affected by the record-setting heat wave that occurred in July 2006.

The Department of Agriculture (USDA) has reviewed the Damage Assessment Reports (DAR), along with additional information submitted by the State Executive Director, Farm Service Agency (FSA). Based on this review, USDA has determined that there were sufficient production losses in 16 counties, to warrant a Secretarial natural disaster designation. Therefore, I am designating 16 California counties as primary natural disaster areas, due to the record-setting heat wave that occurred during the period of July 1, 2006, through July 31, 2006. Those counties are:

Butte	Imperial	Merced	Stanislaus
Calaveras	Kern	San Bernardino	Sutter
Fresno	Kings	Solano	Tehama
Glenn	Madera	Sonoma	Tulare

In accordance with section 321(a) of the Consolidated Farm and Rural Development Act, the following additional areas of your State are named as contiguous disaster counties:

Alameda	Marin	Plumas	Santa Clara
Alpine	Mariposa	Riverside	Shasta
Amador	Mendocino	Sacramento	Trinity
Colusa	Mono	San Benito	Tuolumne
Contra Costa	Monterey	San Diego	Ventura
Inyo	Napa	San Joaquin	Yolo
Lake	Orange	San Luis Obispo	Yuba
Los Angeles	Placer	Santa Barbara	

The Honorable Arnold Schwarzenegger  
Page 2

At this time, USDA is unable to make an accurate and complete determination of production losses due to the disaster in five California counties. Therefore, a decision on your request for those counties will be deferred until the information becomes available for losses due to the heat wave disaster. Those counties are:

Alameda      San Joaquin      San Benito      Sacramento      Yuba

As soon as the DARs are received and the actual losses can be determined, USDA will complete the review of those five counties and a determination will be made.

This designation makes farm operators in both primary and contiguous counties eligible to be considered for low-interest emergency loans from FSA, provided eligibility requirements are met. FSA will consider each application on its own merit by taking into account the extent of losses, security available, and repayment ability.

Local FSA offices can provide affected farmers with further information.

Sincerely,



Mike Johanns  
Secretary

Farm Service Agency  
 Public Affairs Staff  
 1400 Independence Ave SW  
 Stop 0506, Room 3624-South  
 Washington, D.C. 20250-0506  
 Release No. 1468.06

Stevin Westcott (202) 720-4178

**USDA DESIGNATES COUNTIES IN CALIFORNIA AS NATURAL DISASTER AREAS Decision Allows Farmers and Ranchers to Apply for USDA Assistance**

WASHINGTON, June 22, 2006 - The U.S. Department of Agriculture designated 29 counties in California as primary natural disaster areas, making all qualified farm operators in the designated areas eligible for low-interest emergency (EM) loans from USDA's Farm Service Agency (FSA).

The following 29 counties in California were designated as primary disaster areas due to losses caused by unprecedented rainfall and severe weather conditions that occurred from Dec. 17, 2005, through April 26, 2006:

Alameda	El Dorado	Lake	Plumas	Sierra
Amador	Fresno	Madera	Sacramento	Solano
Butte	Glenn	Mendocino	San Joaquin	Sonoma
Calaveras	Humboldt	Merced	San Mateo	Stanislaus
Contra Costa	Kings	Nevada	Shasta	Sutter
Tehama	Tulare	Yolo	Yuba	

Also eligible because they are contiguous are the following counties:

Alpine	Lassen	Monterey	San Luis Obispo
Colusa	Marin	Napa	Santa Clara
Del Norte	Mariposa	Placer	Santa Cruz
Inyo	Modoc	San Benito	Siskiyou
Kern	Mono	San Francisco	Trinity
Toulumne			

The following counties in the adjacent state are also eligible because they are contiguous:

Nevada  
 Douglas and Washoe Counties

All counties listed above were designated natural disaster areas on June 15, 2006, making all qualified farm operators in the designated areas eligible for EM loans, provided eligibility requirements are met. Farmers in eligible counties have eight months from the date of the declaration to apply for the loans to help cover part of their actual losses. FSA will consider each loan application on its own merits, taking into account the extent of losses, security available and repayment ability. FSA has a variety of programs available, in addition to the emergency loan program, to help eligible farmers recover from adversity.

USDA has also made other programs available to assist farmers and ranchers, including the Emergency Conservation Program, Federal Crop Insurance and the Noninsured Crop Disaster Assistance Program.

Interested farmers may contact their local USDA Service Centers for further information on eligibility requirements and application procedures for these and other programs. Additional information is also available online at: <http://disaster.fsa.usda.gov>.

FSA news releases and media advisories are available on FSA's Web site at: <http://www.fsa.usda.gov>.

Farm Service Agency  
 Public Affairs Staff  
 1400 Independence Ave SW  
 Stop 0506, Room 3624-South  
 Washington, D.C. 20250-0506  
 Release No. 1519.06

Latawnya Dia (202) 720-7962

**USDA DESIGNATES 16 CALIFORNIA COUNTIES NATURAL DISASTER AREAS Decision Allows Farmers and Ranchers to Apply for USDA Assistance**

WASHINGTON, Sept. 13, 2006 - The U.S. Department of Agriculture designated 16 California counties primary natural disaster areas due to the record-setting heat wave that occurred July 1-31, 2006. The decision makes all qualified farm operators in the designated areas eligible for low-interest emergency (EM) loans from USDA's Farm Service Agency (FSA). Those counties are:

Butte	Imperial	Merced	Stanislaus
Calaveras	Kern	San Bernardino	Sutter
Fresno	Kings	Solano	Tehama
Glenn	Madera	Sonoma	Tulare

The following California counties are also eligible because they are contiguous:

Alameda	Marin	Plumas	Santa Clara
Alpine	Mariposa	Riverside	Shasta
Amador	Mendocino	Sacramento	Trinity
Colusa	Mono	San Benito	Tuolumne
Contra Costa	Monterey	San Diego	Ventura
Inyo	Napa	San Joaquin	Yolo
Lake	Orange	San Luis Obispo	Yuba
Los Angeles	Placer	Santa Barbara	

In addition, the following counties in the adjacent states of Arizona and Nevada are also eligible because they are contiguous:

Arizona

La Paz, Mohave and Yuma counties

Nevada

Clark County

All counties listed above were designated natural disaster areas on Sept. 7, 2006, making all qualified farm operators in the designated areas eligible for EM loans, provided eligibility requirements are met. Farmers in eligible counties have eight months from the date of the declaration to apply for loans to help cover part of their actual losses. FSA will consider each loan application on its own merits, taking into account the extent of losses, security available and repayment ability. FSA has a variety of programs, in addition to the EM loan program, to help eligible farmers recover from adversity.

USDA has also made other programs available to assist farmers and ranchers, including the Emergency Conservation Program, Federal Crop Insurance and the Noninsured Crop Disaster Assistance Program.

Interested farmers may contact their local USDA Service Centers for further information on eligibility requirements and application procedures for these and other programs. Additional information is also available online at: [FSA Disaster Web site](#).

FSA news releases and media advisories are available on FSA's Web site at: <http://www.fsa.usda.gov/pas/>.



Farm Service Agency  
Public Affairs Staff  
1400 Independence Ave SW  
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Washington, D.C. 20250-0506  
Release No. 1568.06

Latawnya Dia (202) 720-7962

**USDA DESIGNATES SIX CALIFORNIA COUNTIES PRIMARY NATURAL DISASTER AREAS**

*Decision Allows Farmers and Ranchers to Apply for USDA Assistance*

WASHINGTON, Nov. 3, 2006 - The U.S. Department of Agriculture designated six California counties primary natural disaster areas due to losses caused by a record-setting heat wave that occurred in July 2006. Those counties are Amador, Contra Costa, San Benito, San Joaquin, Santa Clara and Yuba. Also eligible because they are contiguous are the following counties:

Alameda	Fresno	Plumas	Solano
Alpine	Merced	Sacramento	Stanislaus
Butte	Monterey	San Mateo	Sutter
Calaveras	Nevada	Santa Cruz	
El Dorado	Placer	Sierra	

All counties listed above were designated natural disaster areas on Oct. 31, 2006, making all qualified farm operators in the designated areas eligible for low-interest emergency (EM) loans from USDA's Farm Service Agency (FSA) provided eligibility requirements are met. Farmers in eligible counties have eight months from the date of the declaration to apply for loans to help cover part or all of their actual losses. FSA will consider each loan application on its own merits, taking into account the extent of losses, security available and repayment ability. FSA has a variety of programs, in addition to the EM loan program, to help eligible farmers recover from adversity.

USDA has also made other programs available to assist farmers and ranchers, including the Emergency Conservation Program, Federal Crop Insurance and the Noninsured Crop Disaster Assistance Program.

Interested farmers may contact their local USDA Service Centers for further information on eligibility requirements and application procedures for these and other programs. Additional information is also available online at: <http://www.fsa.usda.gov/FSA/webapp?area=home&subject=diap&topic=landing>.

FSA news releases and media advisories are available on FSA's Web site at: <http://www.fsa.usda.gov>.

U.S. SMALL BUSINESS ADMINISTRATION  
WASHINGTON, DC 20416

DATE:

TO: Director

FROM: Associate Administrator for Disaster Assistance

SUBJECT: Designation of Economic Injury Disaster # 10615 in the State of CALIFORNIA  
Disaster Number CA-00040 .

In accordance with the Secretary of Agriculture's designation, the Farm Service Agency (FSA) is accepting emergency loan applications in :

CALIFORNIA                      ARIZONA                      NEVADA

As a result of the Secretary's designation, you are authorized to accept and process applications for Economic Injury Disaster Loans from small business concerns and small agricultural cooperatives without credit elsewhere in the designated counties. Please note that "agricultural enterprises" as defined in Section 18(b)(1) of the Small Business Act are not eligible for such loans. However, "nurseries" that are victims of drought disasters are eligible.

This office provides the following information:

State	Number SBA (FSA)	Authorized by FSA	Termination Date
CALIFORNIA	10615 S2386	09/07/2006	05/07/2007
ARIZONA			
NEVADA			

The interest rate is 4.000 percent.

Incident: Record-Setting Heat Wave

Incident Period: 07/01/2006 through 07/31/2006

The specific primary and contiguous counties are listed below.

Primary Counties:

BUTTE	CALAVERAS	FRESNO	GLENN
IMPERIAL	KERN	KINGS	MADERA
MERCED	SAN BERNARDINO	SOLANO	SONOMA
STANISLAUS	SUTTER	TEHAMA	TULARE

Contiguous Counties:

CALIFORNIA

ALAMEDA	ALPINE	AMADOR
COLUSA	CONTRA COSTA	INYO
LAKE	LOS ANGELES	MARIN
MARIPOSA	MENDOCINO	MONO
MONTEREY	NAPA	ORANGE
PLACER	PLUMAS	RIVERSIDE
SACRAMENTO	SAN BENITO	SAN DIEGO
SAN JOAQUIN	SAN LUIS OBISPO	SANTA BARBARA
SANTA CLARA	SHASTA	TRINITY

TUOLUMNE  
YUBA

VENTURA

YOLO

ARIZONA

LA PAZ

MOHAVE

YUMA

NEVADA

CLARK

U.S. SMALL BUSINESS ADMINISTRATION  
WASHINGTON, DC 20416

DATE:

TO: Director

FROM: Associate Administrator for Disaster Assistance

SUBJECT: Designation of Economic Injury Disaster # 10703 in the State of CALIFORNIA  
Disaster Number CA-00042 .

In accordance with the Secretary of Agriculture's designation, the Farm Service Agency (FSA) is accepting emergency loan applications in :

**CALIFORNIA**

As a result of the Secretary's designation, you are authorized to accept and process applications for Economic Injury Disaster Loans from small business concerns and small agricultural cooperatives without credit elsewhere in the designated counties. Please note that "agricultural enterprises" as defined in Section 18(b)(1) of the Small Business Act are not eligible for such loans. However, "nurseries" that are victims of drought disasters are eligible.

This office provides the following information:

State	Number SBA (FSA)	Authorized by FSA	Termination Date
CALIFORNIA	10703 S2440	10/31/2006	07/02/2007

The interest rate is 4.000 percent.

Incident: Record-Setting Heat Wave

Incident Period: 07/01/2006 through 07/31/2006

The specific primary and contiguous counties are listed below.

Primary Counties:

AMADOR	CONTRA COSTA	SAN BENITO	SAN JOAQUIN
SANTA CLARA	YUBA		

Contiguous Counties:

CALIFORNIA

ALAMEDA	ALPINE	BUTTE
CALAVERAS	EL DORADO	FRESNO
MERCED	MONTEREY	NEVADA
PLACER	PLUMAS	SACRAMENTO
SAN MATEO	SANTA CRUZ	SIERRA
SOLANO	STANISLAUS	SUTTER

**SECTION 9**

**Attachment 6**

**Historical (1997-2005) Outage Information from Prior Reports**

**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

Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	# of People Used To Restore Service	CPUC Major Event?
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
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 <sup>th</sup> and early hours of the 28 <sup>th</sup> , 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 <sup>th</sup> . The storm of Dec 30 <sup>th</sup> 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
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
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 <sup>th</sup> (62 mph at SF Airport, 57 mph at Sunol, 50 mph at Pleasanton, 52 mph at Konocil, 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
A strong weather front with gusty winds and heavy rain affected the northern half of the service area late on Dec 6 <sup>th</sup> and early Dec 7 <sup>th</sup> . 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
3 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 <sup>rd</sup> 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**

Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
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 <sup>nd</sup> . Gusty northwest winds occurred on the 4 <sup>th</sup> . 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
A strong winter storm moved through the service area on December 29 <sup>th</sup> . 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
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
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
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 <sup>th</sup> . 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
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 <sup>th</sup> through the evening of the 26 <sup>th</sup> .	08/26	80,159	42	N/A	N

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



#### 4 - Ten Largest 2002 Outage Events

Description	Date	Number of Customer Interruptions *	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
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	3245**	Y
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	3245**	Y
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 <sup>th</sup> , late on the 30 <sup>th</sup> , and early on the 31 <sup>st</sup> . Peak wind speeds on the 28 <sup>th</sup> 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 <sup>st</sup> 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
A heat wave enveloped the entire Service Area beginning on July 8 <sup>th</sup> . Temperatures in the interior valley remained above 100 Deg F through July 15 <sup>th</sup> . The maximum temperatures on the 9 <sup>th</sup> 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 <sup>th</sup> , maximum temperatures reached 110 Deg F in Stockton and Sacramento and 115 in Redding. On the 11 <sup>th</sup> , 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
A cold front moved through the Service Area on the 14 <sup>th</sup> and 15 <sup>th</sup> 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
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
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 <sup>th</sup> included 96 Deg F in Red Bluff, 95 in Redding, 94 in Stockton, and 94 in Fresno. Maximum temperatures on the 30 <sup>th</sup> 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
A Transmission system outage occurred in Diablo division.	11/19	59,023	7 Minutes	Not Requested	N
A storm system pushed through the Service Area on the 6 <sup>th</sup> and 7 <sup>th</sup> 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
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 estimated of the number of PG&E electric field personnel working.

- Ten Largest 2001 Outage Events

Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
Strong early season storm with gusty winds, heavy rains and mountain snows. Many northern and central California weather stations reported wind gusts over 50 mph (e.g. Oroville 54 mph, SF Airport 53 mph, Stockton 58 mph). Most service area locations received over ¼ inch of rain with some 24 hour totals over 2 inches (e.g. 2.25 inches at Concord)	Nov 24	699,915	147	Not Requested	Yes
Series of winter storms brought periods of gusty winds, moderate to heavy rain, thunderstorms and low snow levels. Wind gusts between 30-45 mph, 1-2 ft of snow below 3000 ft Feb 10 <sup>th</sup> , additional snow to 500 ft. in Bay Area Feb 12 <sup>th</sup> (Mt Hamilton reported 17 inches on the ground). Snow also reported on the Sacramento Valley floor (Red Bluff) and in Eureka on Feb 12 <sup>th</sup> . Rainfall totals ranged from 1-2 inches most areas Feb 10 <sup>th</sup> , with 2-4 inches in the Santa Cruz Mountains. Thunderstorms reported Feb 10, 11 <sup>th</sup> and 12 <sup>th</sup> .	Feb 9-12	284,964	264	Not Requested	No
Winter storm with gusty winds, especially along the coast and northern half of service area and central coast. Peak winds between 30 – 60+ mph (59 mph at Redding, 55 mph at SF Airport, 43 mph at Monterey). Total Dec 1-2 rainfall between 2-5 inches at many locations, especially along the coast and Bay Area. Rains fell on near-saturated ground due to frequent preceding storms.	Dec 1-2	248,475	39	Not Requested	No
Winter storm moved through service area bringing periods of heavy rain and gusty winds. Records show this was the first strong storm on the 2000-2001 winter season. Wind gusts generally 30 – 50+ mph (52 mph gust at Eureka, 43 mph gust at SF Airport, 70 mph gust at Los Gatos). Rainfall amounts generally 0.5 to 1.5 inches in the northern half of the service area and along the entire coast. Heaviest rain in San Luis Obispo County (2-4 inches).	Jan 10	247,447	37	Not Requested	No
Period of intense thunderstorm activity, especially along the coast and coastal valleys. Over 4600 lightning strikes reported, mostly between Monterey and Sonoma Counties. Reports indicate only two other similar lightning events since 1980.	Sep 24-25	234,412	67	Not Requested	No
Winter storm with periods of heavy rain and gusty winds, especially in the Sacramento and San Joaquin Valleys (gust to 60 mph Red Bluff, gust to 51 mph at Oroville, gust to 51 mph at Bakersfield) and along the coast from Mendocino county south (gust to 71 mph Bodega Bay, gust to 57 mph at Half Moon Bay, gust to 46 mph at San Luis Obispo). Rainfall ½ to 3+ inches (e.g. 3.01 at San Luis Obispo)	Mar 4	211,452	111	Not Requested	No
Storm event on heels of Thanksgiving weekend storm. Strongest winds in the Central Valley. Wind gusts 30 to 50 mph (e.g. 48 mph at Redding, 49 mph at Oroville, 44 mph at Stockton). Some locations reported over 2 inches of rain (2.52 inches at Santa Rosa, 2.82 inches at Santa Cruz on Nov 29th).	Nov 28-29	166,297	83	Not Requested	No
Winter storm with gusty winds and periods of moderate to heavy rain. Wind gusts of 30-40 mph along coast, coast valleys and northern Sacramento Valley (SF Apt gust to 37 mph, Concord gust to 35 mph, Chico gust to 35 mph). Generally ½ to 1 inch rain except ¼ to ½ inch in San Joaquin Valley	Jan 25	143,300	71	Not Requested	No
Scattered thunderstorms developed in the Central Valley after the weather front moved through. Wind gusts 20 to 30 mph (e.g. gust of 28 mph at Sacramento, gust of 26 mph at Redding, gust of 24 mph at Marysville). Rainfall amounts generally under ½ inch.	Oct 30	122,989	36	Not Requested	No
Weather front with wind gusts 20-30 mph (e.g. 28 mph at Sacramento, 24 mph at Salinas) accompanied by periods of moderate to heavy rain. Scattered thunderstorms reportedly developed behind the front. Rainfall totals of ¼ to 2+ inches reported in the bay Area (2.70 inches Kentfield, 2.09 inches at SF Airport)	Nov 12	78,491	30	Not Requested	No

Note: Values exclude single distribution line transformer and planned outages

- Ten Largest 2000 Outage Events

Description	Date	Number of Customers Affected	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
A series of intense storms brought gusty southeast winds, low snow levels, and heavy rain into the Service Area. Wind gusts of 54 mph, 60mph and 74 mph were recorded in Chico, Morro Bay, and Lake Tahoe, respectively.	February 11 - 14	381,581	90	Not requested	No
A heat wave coupled with gusty north and northeast winds was experienced during this three-day period. Maximum temperatures on the 14 <sup>th</sup> included 103 Deg F in downtown San Francisco, 100 Deg F in Oakland, 105 Deg F in Sacramento, 109 Deg F in San Jose, and 115 Deg F in Paso Robles.	June 13 - 15	354,452	97	Not requested	No
A strong cold front pushed through the Service Area on Friday, October 20 <sup>th</sup> . North and Northeast winds developed on Saturday October 21 and Sunday October 22. Gusts in excess of 40 mph occurred in the Central Valley and gusts up to 70 mph occurred in the East Bay hills early Sunday morning.	October 21 - 22	290,777	42	Not requested	No
An intense cold front moved through the Redwood Region, Northern Interior, and Bay Area. Numerous showers and thundershowers developed on the 26 <sup>th</sup> . A funnel cloud was sighted in Richmond, CA on the afternoon of the 26 <sup>th</sup> .	October 25 - 26	112,426	18	Not requested	No
A storm system moved through northern and central sections on January 31 <sup>st</sup> . Gusty north and northeast winds developed over the Bay Area, Redwood, Northern Interior, and Central Interior in the days after the storm system with the strongest northeast winds occurring overnight from February 2 into the morning of the 3 <sup>rd</sup> . A gust of 53 mph was reported in Grass Valley and a gust of 41 mph was reported in Bakersfield.	February 03	106,915	17	Not requested	No
A storm system brought heavy rain and gusty southeast surface winds to Redwood and the Northern Interior. A gust of 56 mph was recorded at Redding. A gust of 47 mph was recorded at Red Bluff.	January 10 -11	100,236	17	Not requested	No
A cold front pushed through Northern and Central Sections on February 18 <sup>th</sup> . High pressure building into the Great Basin resulted in gusty northeast winds over the coastal hills and the East Bay hills overnight from the 19 <sup>th</sup> through the morning of the 20 <sup>th</sup> . Widespread gusts of 35 to 50 mph were recorded including 49 mph at Bakersfield and 40 mph at Fresno and Visalia.	February 20	89,985	24	Not requested	No
A cold front affecting principally central and southern zones brought rain and gusty southwest winds to the Service Area. 24-hour precipitation totals included 1.60" at Blue Canyon; 0.86" at Monterey; 0.95" at Fresno. Thunderstorms, accompanied by gusty winds, hail, lightning, and heavy downpours, developed over the Central and Southern San Joaquin Valley.	October 09 - 10	89,288	19	Not requested	No
An early season cold front moved through California. Gusty southerly winds with speeds up to 40 mph preceded the frontal passage on September 1. 24-hour precipitation totals set new calendar day records for the date. Totals included 0.99" at Blue Canyon and 2.01" at Redding. Thunderstorms, accompanied by gusty winds, hail, lightning, and heavy downpours, developed over the Central San Joaquin Valley.	September 01	87,250	27	Not requested	No
A cold front moved through northern and central portions of the Service Area on the 15 <sup>th</sup> . Forty-four inches of new snow was reported at Mammoth Lakes. Following frontal passage, northwest winds developed on the 16 <sup>th</sup> across Redwood, Northern Interior, and Central Interior with gusts exceeding 40 mph. A wind gust of 52 mph was recorded on the 16 <sup>th</sup> in Humboldt County.	January 16	66,199	16	Not requested	No

Values exclude single distribution line transformer and planned outages

**- Ten Largest 1999 Outage Events**

Description	Date	Number of Customers Affected	Longest Customer Interruption (Hours)	Number of People Used to Restore Service	CPUC Major Event?
A strong weather front brought gusty winds combined with periods of moderate to heavy rainfall throughout the service area. Wind gusts above 40 mph were recorded at many stations in the Bay Area, Central Coast, and Southern Interior zones (48 mph at Bakersfield). Coastal ridgeline and Sierra wind speed peaks exceeded 50 mph (53 mph at Lake Spaulding and 61 mph at Mt Reba).	February 9	286,528	37	Not requested	No
Typical summer weather conditions reported. However, a transmission substation outage event occurred affecting customers predominately located in the Central Coast Division.	August 31	276,823	8	Not requested	No
Strong gusty southerly winds accompanied an early spring storm throughout the service area. Strongest low elevation winds were recorded in the Central Coast (57 mph at San Luis Obispo). Winds were recorded at weather stations in the Bay Area, Central Interior and Southern Interior zones ranging from 40 to 45 mph from Vaca-Dixon through Bakersfield. Coastal ridge and Sierra winds exceeded 50 mph in many areas (61 mph at Davis Peak in San Luis Obispo County and 65 mph at Mt. Reba).	April 3	252,202	70	Not requested	No
An intense band of thunderstorms moved through the Central Coast, Bay Area, Redwood, and Northern Interior zones producing frequent lightning strikes, especially near the coast. One report indicated that over 4,500 lightning strikes were recorded along the coast between Santa Barbara and Pt Arena.	September 8-9	194,280	102	Not requested	No
A strong storm system moved through the service area with gusty southerly winds with wind gusts above 40 mph reported in all zones except the Southern Interior. In the Central Coast zone, a gust of 49 mph was recorded at Salinas. Peak gusts between 40 and 45 mph were recorded at S.F. Airport, Palo Alto, Livermore, Hayward, San Luis Obispo, San Jose, Red Bluff, Chico, Sacramento and Bellota.	November 7-8	181,264	53	Not requested	No
A heat wave was experienced during this three day period affecting coastal and interior areas. Many interior cities recorded maximum temperatures above 105 F including 114 at Redding, 112 at Concord, 107 at Fresno, and 108 in Paso Robles. An influx of subtropical moisture resulted in scattered thunderstorm development along the Sierra Nevada range with lightning activity reported in the foothills south of Yosemite.	July 11-13	163,408	26	Not requested	No
A heat wave affected the service area during this time period. Maximum temperatures above 100 F were observed at most locations in the Central Valley on all three days. The hottest temperatures were found in the Northern Interior zone with Marysville recorded at 109 and Red Bluff recorded at 107.	June 28-30	135,071	59	Not requested	No
Skies were mostly sunny with winds under 20 mph. However, a transmission substation outage event occurred affecting customers predominately located in San Francisco and Peninsula Divisions.	October 31	116,549	14	Not requested	No
Strongest winds and highest rainfall totals were recorded from the Bay Area north. Red Bluff recorded a peak wind gust of 38 mph, and Geysers 13 recorded a peak speed of 40 mph. After the front passed, gusty northwesterly winds up to 40 mph developed in the Central Interior, Southern Interior and Central Coast.	October 27-28	112,543	46	Not requested	No
A weak upper level disturbance brought shower activity that was mainly confined to the southern Redwood, Bay Area and Central Coast. Numerous thunderstorms were reported, mostly along the coast from Santa Rosa to San Luis Obispo. A transmission line failure occurred during reported lightning activity which affected customers predominately located in the North Coast Division.	September 22	104,022	35	Not requested	No

: Values exclude single distribution line transformer and planned outages

## Largest 1998 Outage Events

Description	Date	Number of Customers Affected	Longest Customer Interruption (Hours)	Number of People Used to Restore Service	CPUC Major Event?
A series of weather systems pounded northern and central California bringing heavy rains and periods of strong winds. Coastal and coastal mountain areas south of Cape Mendocino were hardest hit. Many service area weather stations reported between 10 and 20 inches of rain during the 12-day period. Widespread flooding resulted along rivers and streams from the Sacramento and Russian Rivers and throughout as a result of the heavy rains on Feb 3, and additional flooding occurred in the Bay Area and Central Coast areas on Feb 7 and 8. Gusty winds in excess of 50 mph were reported on Feb 1, 2 and 3. On Feb 3 a wind gust of 81 mph was reported along at Pigeon Point and many Central Coast stations reported gusts over 60 mph. Later that day a gust of 58 mph was reported at Bakersfield. Strong thunderstorms were reported on Feb 6 and 7, with a tornado spotted at Sunnyvale on Feb 7.	January 31-February 11	1,055,983	222.8	5,200	Yes
in Francisco, Northern Peninsula Outage – Human error. Refer to PG&E's "December 8 1998 Outage Investigation Report" dated January 25, 1999 for complete details.	December 8	* 496,304	7.8	Not requested	Yes
A strong storm system brought periods of moderate rain and gusty winds to northern and central portions of the service area. Wind gusts above 40 mph were recorded at many Sacramento Valley and Bay Area weather stations.	November 6-7	269,880	5.1	Not requested	No
A strong high pressure and offshore winds combined to produce the most intense heat wave in the East Bay area in several years. Nearly all weather stations in central and eastern Contra Costa and Alameda counties reported afternoon temperatures at or above 105F on August 3 and 4, with Livermore reaching 107F on August 4.	August 2-5	268,679	28.8	Not requested	No
A series of storms moved through the service area, the strongest events were on Dec 2-3 and Dec 5. Over 2 inches of rain was reported at Eureka on Dec 2; wind speeds gusted to 40 mph at Redding. On Dec 3, wind gusts of 25-45 mph were recorded in the Bay Area and Sacramento Valley. The December 5 storm was stronger in the Bay Area and Central Coast areas, with San Francisco Airport winds gusting to 41 mph. Strong thundershower activity developed during the afternoon, with a tornado reported in the Bay Area and Santa Cruz County areas. Winds in the Sacramento and northern San Joaquin Valley gusted from 25 to 43 mph.	December 2-6	225,475	30.1	Not requested	No
Temperatures warmed into the 80's near the coast and 90's inland on Jun 15 as northerly flow developed. Strong gusty northerly winds developed on Jun 16, with reported gusts of 47 mph at Travis AFB and gusts to 46 mph at Marysville, Sacramento and Yuba-Dixon. Most other Central Valley stations recorded wind gusts between 30 and 45 mph.	June 14-16	218,998	46.6	Not requested	No
A cold storm brought winds of 35-45 mph to the North Coast and Bay Areas on March 28. Most locations had less than 0.50 inches of rain. Afternoon thunderstorm activity was reported at many locations in the service area.	March 28-29	194,480	11.3	Not requested	No
A warm frontal storm brought periods of moderate to heavy rains and strong winds to the northern half of the service area. Redding received over 1.25 inches of rain each day with winds gusting to 51 mph on Nov 30. Wind gusts to 53 mph were recorded along the North Coast at Mendocino, and gusts to 40 mph were recorded in the Sacramento Valley.	November 29-30	179,717	30.8	Not requested	No
The first storm of the winter season moved across the service area. Winds gusted to 35 mph in Fresno. Between 0.25 and 1.25 inches of rain was recorded in the Bay Area.	October 24	123,261	20.5	Not requested	No
A strong winter storm resulted in wind gusts to 51 mph at Redding and brought over one inch of rain to the north Sacramento Valley. Wind gusts above 40 mph were also recorded along the North Coast.	November 23	102,980	47.5	Not requested	No

Values exclude single distribution line transformer and planned outages

\* Updated March 1, 2000

Table 2 - Ten Largest 1997 Outage Events

Rank	Description	Date	Number Of Customers Affected	Longest Customer Interruption (Hours)	Number Of People Used To Restore Service	CPUC Major Event?
1	A series of weather fronts with periods of gusty wind, thunderstorms and heavy rains resulting in flood conditions in Sacramento, Placer, Butte, and Solano counties.	January 22-26	349,314	80.2	Not requested	No
2	Strong and gusty northerly winds in northern and central California. Wind speeds of 45 to 50 mph in the Bay area hills and 50 to 70 mph in the Sierras were experienced.	April 1-3	341,119	27.2	Not requested	No
3	Series of warm moisture laden storms crossed the service territory during the last days of December 96 and the first days of January 97. Heavy rainfall and high elevation rain melting the Sierra snowpack triggered widespread flooding which resulted in a state of emergency being declared in 37 California counties during the first week of January.	January 1-4	322,950	105.6	1000	Yes
4	Gusty northerly winds occurred over this two day period. Wind gusts of 25 to 62 mph were recorded throughout the service area.	February 23-24	205,812	60.5	Not requested	No
5	Scattered showers and thunderstorm activity experienced in most of northern and central California. A transmission outage occurred in the north coast area caused by lightning.	August 19-20	179,199	34.0	Not requested	No
6	Major San Francisco substation outage due to sabotage.	October 23	137,209	14.4	Not requested	No
7	A strong Alaskan weather system moved through the northwest corner of the state. Wind speeds reached 50 to 80 mph in the Humboldt and Del Norte county areas with heavy rain. This storm reached the Bay Area, Redwood region, and Sacramento Valley with 20-30 mph winds recorded.	November 18-19	136,313	85.4	Not requested	No
8	Pacific storm with gusty winds of 30-65 mph, thunderstorms, and periods of heavy rainfall were experienced throughout the service territory.	November 26	122,523	52.5	Not requested	No
9	Storm system with widespread thunderstorm activity, rainfall, and up to 38 mph winds.	November 10-11	120,274	53.3	Not requested	No
10	A fast moving weather system with heavy rains and gusty 25-35 mph winds in the Sacramento, north coast, central coast, and Bay Area.	November 15	93,958	28.8	Not requested	No

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

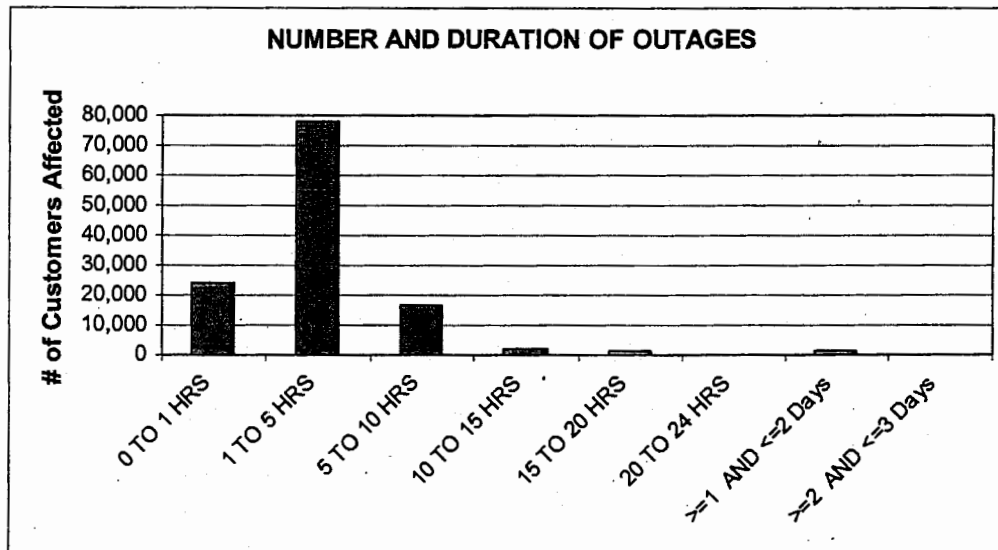
Of the ten largest events listed in Table 5, two events, December 18-20 and December 30-31, met the CPUC definition of a major event. Tables 6 & 7 indicate the number of customers without service at the requested periodic intervals for this event.

**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**

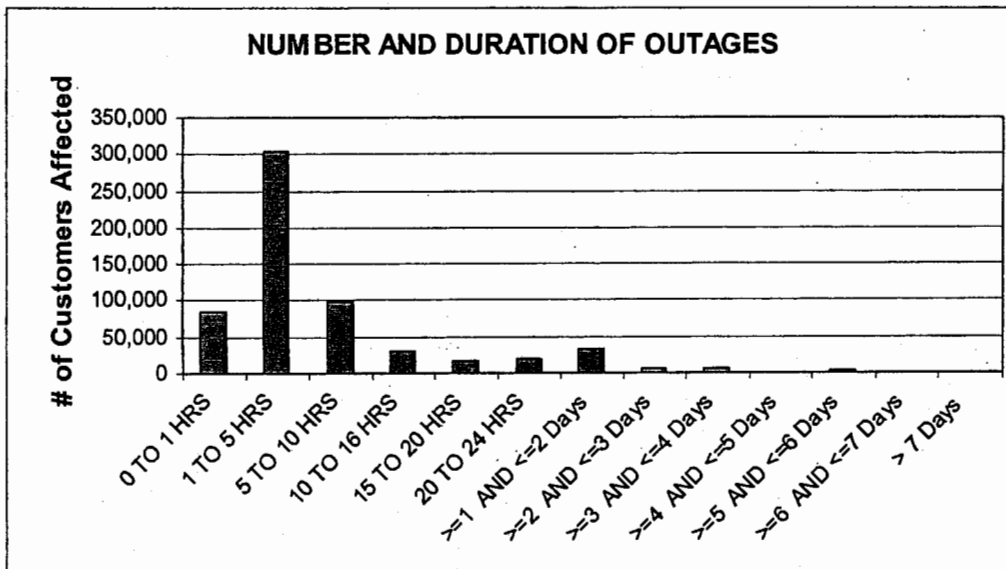


**Table 7 – December 30-31, 2005 Outage Event Duration Summary**

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**





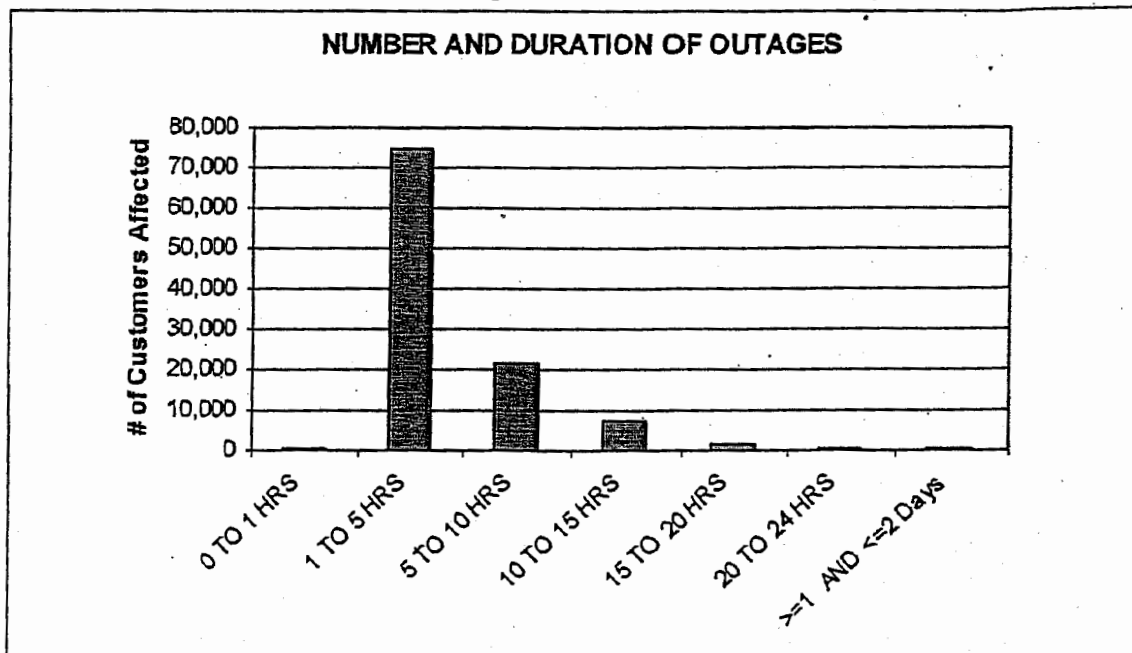
Of the ten largest events listed in 2003, only one event, the December 22 earthquake met the CPUC definition of a major event. Table 5 indicates the number of customers without service at the requested periodic intervals for this request.

**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**



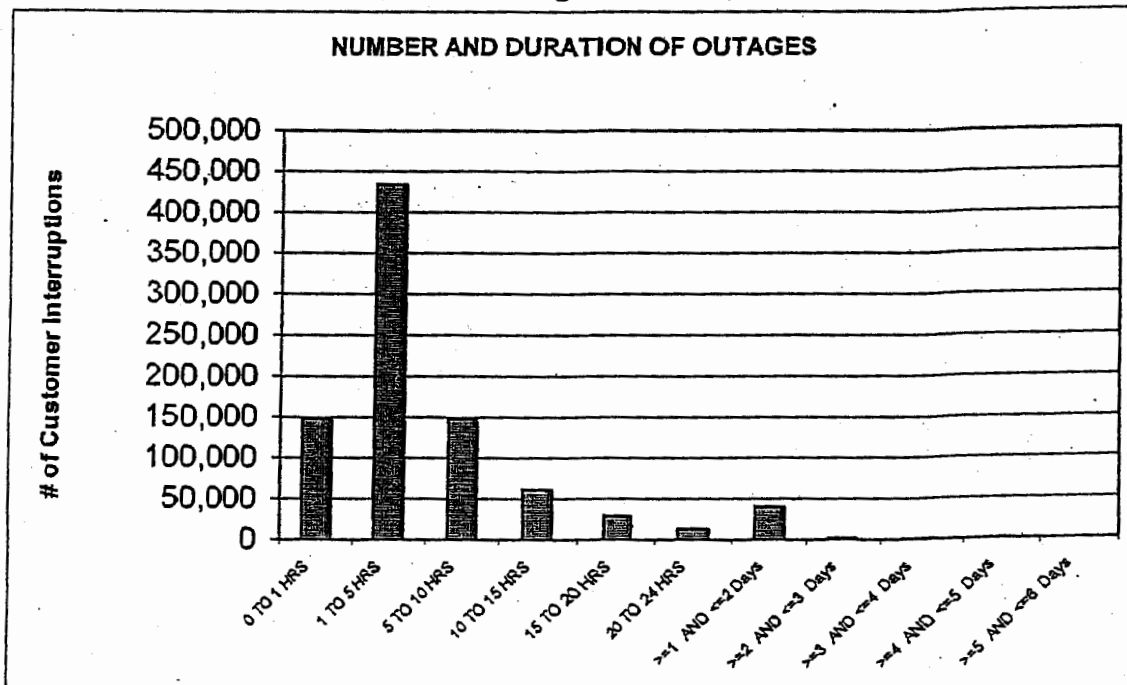
Of the ten largest events listed in Table 4, two events, November 7-8 and December 13-21, met the CPUC definition of a major event. Tables 5 & 6 indicate the number of customers without service at the requested periodic intervals for this event.

**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**

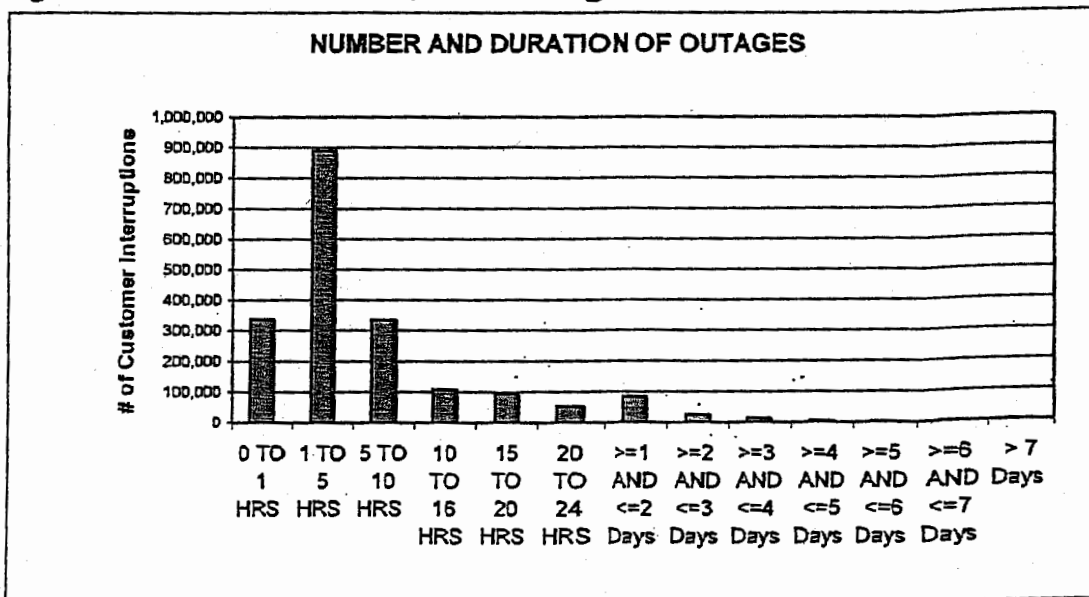


**Table 6 – December 13-21, 2002 Outage Event Duration Summary**

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**



Of the ten largest events listed in Table 4, only one event, November 24, met the CPUC definition of a major event. Table 5 indicates the number of customers without service at the requested periodic intervals for this event.

**Table 5 – November 24, 2001 Outage Event Duration Summary**

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 to 1 HRS	11/24/2001	Noted in Table 4	85,878
1 to 5 HRS	"	"	355,344
5 to 10 HRS	"	"	89,828
10 to 15 HRS	"	"	30,067
15 to 20 HRS	"	"	12,321
20 to 24 HRS	"	"	4,824
>1 and <=2 Days	"	"	17,359
>2 and <=3 Days	"	"	2,991
>3 and <=4 Days	"	"	191
>4 and <=5 Days	"	"	13
>5 and <=6 Days	"	"	1
>6 and <=7 Days	"	"	1

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 24, 2001 Outage Event Duration Summary**

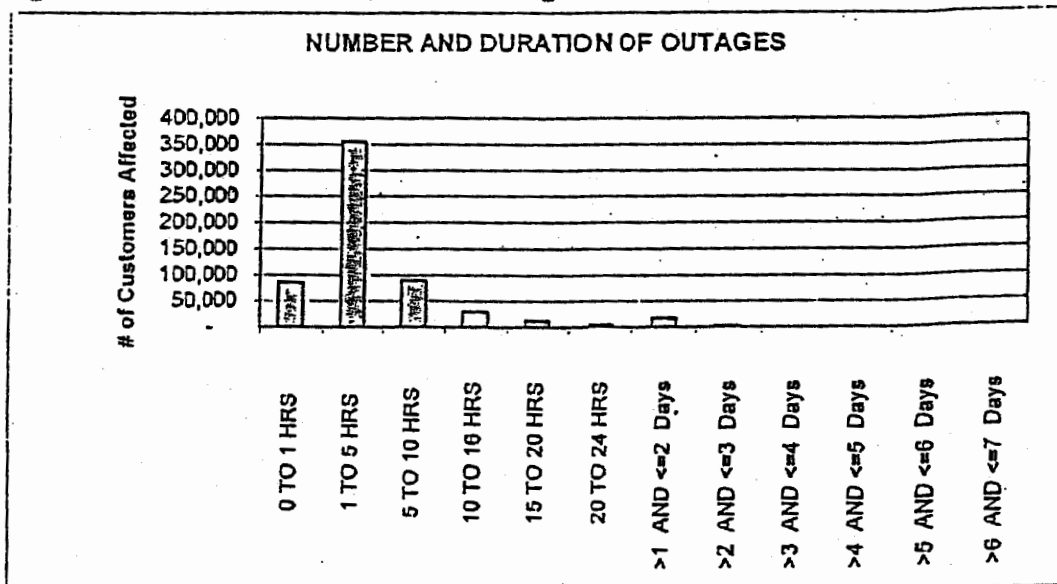


Table 3 - January 31 through February 11, 1998 Outage Event Duration Summary -

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	01/31/98 - 02/11/98	Noted in Table 2	456,453
1 TO 5 HRS	"	"	882,947
5 TO 10 HRS	"	"	152,189
10 TO 16 HRS	"	"	68,188
15 TO 20 HRS	"	"	41,539
20 TO 24 HRS	"	"	37,559
>1 AND <=2 Days	"	"	46,730
>2 AND <=3 Days	"	"	12,498
>3 AND <=4 Days	"	"	3,956
>4 AND <=5 Days	"	"	701
>5 AND <=6 Days	"	"	360
>6 AND <=7 Days	"	"	980
>7 Days	"	"	262

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 - January 31 through February 11, 1998 Outage Event Duration Summary

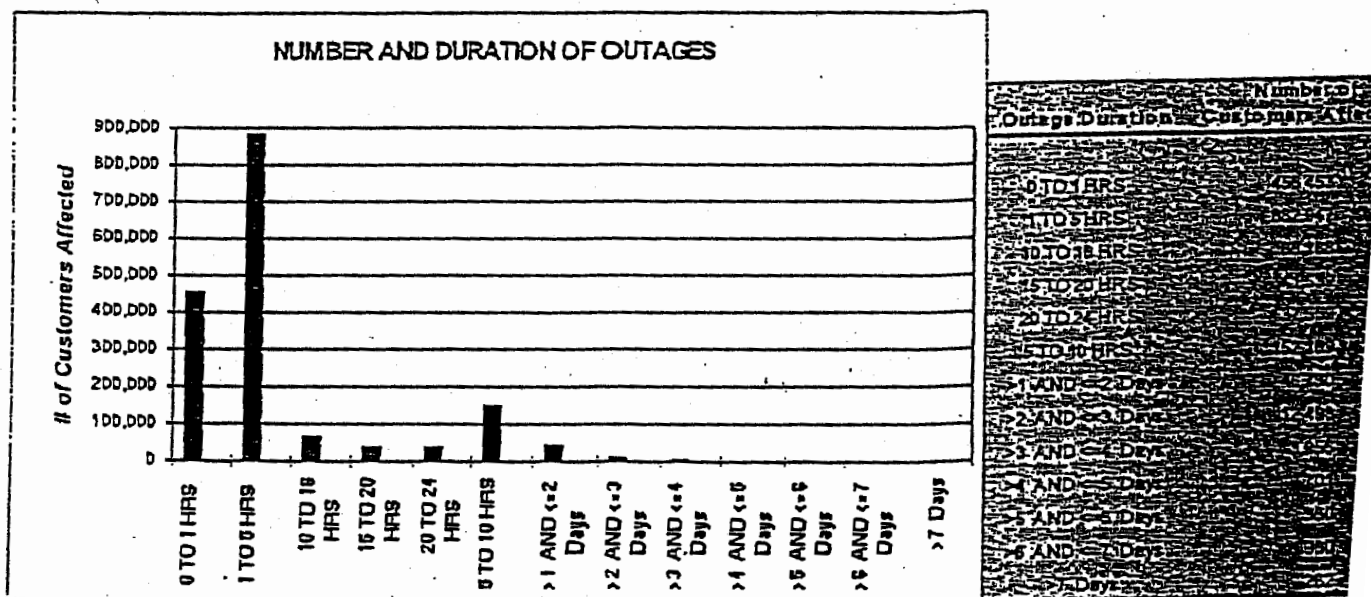
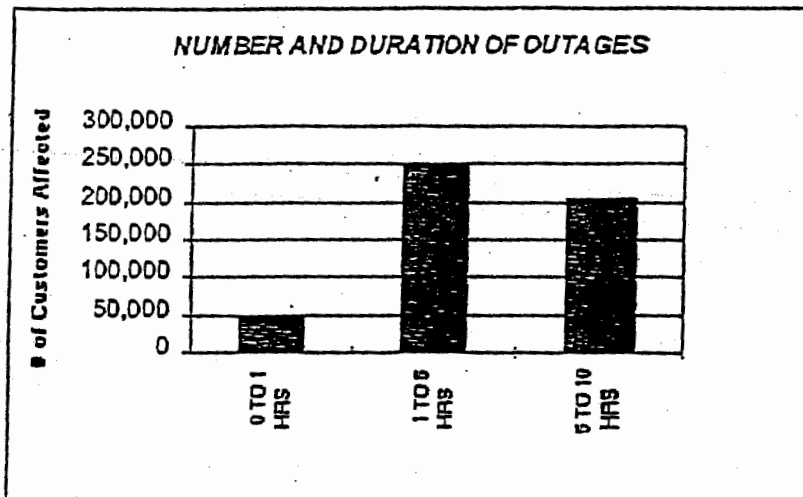


Table 4 - December 8, 1998 Outage Event Duration Summary - Revised March 1, 2000

Outage Duration	Date of Outage	Description of Outage	Number of Customers Affected
0 TO 1 HRS	12/8/98	Noted in Table 2	49,886
1 TO 5 HRS	"	"	250,518
5 TO 10 HRS	"	"	203,568

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 8, 1998 Outage Event Duration Summary - Revised March 1, 2000



Outage Duration	Number of Customers Affected
0 TO 1 HRS	49,886
1 TO 5 HRS	250,518
5 TO 10 HRS	203,568

## SECTION 3

### 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

### SECTION 3

#### 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

## Customers Experiencing > 12 Sustained Outages During 2001

Table 6 lists all circuits where one or more customers on a circuit that experienced more than 12 sustained outages in 2000. 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 2001

Division	Feeder Name	# Customers Experiencing > 12 Outages
CENTRAL COAST	BIG BASIN 1101	170
CENTRAL COAST	BIG BASIN 1102	150
CENTRAL COAST	CASTROVILLE 2103	8
CENTRAL COAST	FOREST 0422	21
CENTRAL COAST	POINT MORETTI 1101	49
DE ANZA	CAMP EVERS 2106	130
DE ANZA	LOS GATOS 1106	45
DE ANZA	LOS GATOS 1107	129
FRESNO	DUNLAP 1102	341
FRESNO	TULARE LAKE 2108	11
KERN	SISQUOC 1102	3
LOS PADRES	CABRILLO 1103	47
NORTH BAY	CALISTOGA 1101	6
NORTH COAST	ANNAPOLIS 1101	5
NORTH COAST	ARCATA 1122	16
NORTH COAST	CLEAR LAKE 1101	37
NORTH COAST	GARBERVILLE 1101	342
NORTH COAST	GARBERVILLE 1102	302
NORTH COAST	GEYSERVILLE 1101	14
NORTH COAST	HOOPA 1101	29
NORTH COAST	MONTE RIO 1111	562
NORTH COAST	MONTE RIO 1113	140
NORTH COAST	RIO DELL 1102	161
NORTH COAST	WILLITS 1103	35
NORTH VALLEY	LOGAN CREEK 2101	64
NORTH VALLEY	LOGAN CREEK 2102	27
NORTH VALLEY	WYANDOTTE 1103	13
PENINSULA	HALF MOON BAY 1103	45
SACRAMENTO	MADISON 1105	30
SAN JOSE	LLAGAS 2104	29
SIERRA	BRUNSWICK 1105	686
SIERRA	CATLETT 1101	13
SIERRA	PLACERVILLE 2106	80
STOCKTON	PINE GROVE 1102	125
STOCKTON	VIERRA 1702	91
YOSEMITE	LE GRAND 1110	9
YOSEMITE	OAKHURST 1103	422

Total - 4,387

### Customers Experiencing > 12 Sustained Outages During 2000

Table 5 lists all circuits where one or more customers on a circuit that experienced more than 12 sustained outages in 2000. 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 2000**

Division	Feeder Name	# Customers Experiencing > 12 Outages
CENTRAL COAST	WATSONVILLE 2101	1
NORTH VALLEY	CHALLENGE 1101	139
NORTH VALLEY	ESQUON 1101	1
NORTH VALLEY	ESQUON 1102	3
PENINSULA	ALPINE-MENLO 1103	20
SACRAMENTO	GRAND ISLAND 2222	72
SIERRA	ECHO SUMMIT 1101	7
STOCKTON	FROGTOWN 1702	3
YOSEMITE	CANAL 1103	5
YOSEMITE	EL NIDO 1.103	22

Total - 273

10

### Historical (1991-1999) Outage Information From Prior Reports

For easy reference, Attachment 1 contains copies of service reliability report information previously submitted for 1991 through 1999.

## Customers Experiencing > 12 Sustained Outages During 1999

Table 5 lists all circuits where one or more customers on a circuit that experienced more than 12 sustained outages in 1999. 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 1999

Division	Feeder Name	# Customers Experiencing > 12 Outages
CENTRAL COAST	OTTER 1102	132
CENTRAL COAST	CAMP EVERS 2105	61
DIABLO	CONTRA COSTA 2109	2
KERN	OLD RIVER 1102	7
KERN	SMYRNA 1103	8
LOS PADRES	OILFIELDS 1103	56
NORTH BAY	OLEMA 1101	1
NORTH BAY	PUEBLO 2102	60
NORTH COAST	FULTON 1104	6
NORTH COAST	GEYSERVILLE 1101	58
NORTH COAST	HOPLAND 1101	206
NORTH COAST	MONTE RIO 1111	132
NORTH VALLEY	GERBER 1101	1
NORTH VALLEY	LOGAN CREEK 2101	54
NORTH VALLEY	PEACHTON 1102	12
NORTH VALLEY	WYANDOTTE 1103	3
SACRAMENTO	MADISON 1105	10
SACRAMENTO	PUTAH CREEK 1102	35
SIERRA	ECHO SUMMIT 1101	39
STOCKTON	CARBONA 1101	39
YOSEMITE	BEAR VALLEY 2101	42
YOSEMITE	COTTLE 1701	18

22

Total - 982

## Historical (1990-1998) Outage Information From Prior Reports

For easy reference, Attachment 1 contains copies of service reliability report information previously submitted for 1990 through 1998.

Table 5 - Customers Experiencing > 12 Sustained Outages During 1998

Division	Feeder Name	# Customers Experiencing > 12 Outages
CENTRAL COAST	POINT MORETTI 1101	39
CENTRAL COAST	SAN ARDO 1102	332
DE ANZA	CAMP EVERS 2106	443
DE ANZA	LOS GATOS 1106	402
DIABLO	CONTRA COSTA 2109	40
FRESNO	ALPAUGH 1106	13
FRESNO	DUNLAP 1103	298
FRESNO	STROUD 1101	37
LOS PADRES	SANTA MARIA 1105	3
NORTH BAY	NAPA 1102	173
NORTH BAY	SILVERADO 2105	3
NORTH COAST	FORT BRAGG STA A 1	3
NORTH COAST	MONTE RIO 1111	117
NORTH COAST	MONTE RIO 1113	1,361
NORTH COAST	POINT ARENA 1101	10
NORTH VALLEY	CAPAY 1102	15
NORTH VALLEY	CHALLENGE 1101	116
NORTH VALLEY	ELK CREEK 1101	55
NORTH VALLEY	ESQUON 1101	14
NORTH VALLEY	JACINTO 1101	19
NORTH VALLEY	LOGAN CREEK 2101	7
PENINSULA	HALF MOON BAY 1103	473
SACRAMENTO	CORDELIA 1104	17
SACRAMENTO	RICE 1102	8
SIERRA	EL DORADO P H 2101	85
STOCKTON	OLETA 1101	67
STOCKTON	SALT SPRINGS 2101	34
YOSEMITE	COTTLE 1701	94

28

Table 4 - Customers Experiencing > 12 Sustained Outages During 1997

Division	Feeder Name	Number of Customers Experiencing > 12 Sustained Outages
CENTRAL COAST	BEN LOMOND 0401	38
	BEN LOMOND 1101	159
	CAMP EVERS 2106	282
	LOMPICO 0401	337
	POINT MORETTI 1101	96
	ROB ROY 2104	286
	SAN ARDO 1102	101
	SOLEDAD 2101	200
	WATSONVILLE 2101	1,137
DE ANZA	CAMP EVERS 2104	949
	CAMP EVERS 2105	415
	LOS GATOS 1107	3
DIABLO	SAN RAMON 2105	79
KERN	TUPMAN 1104	1
LOS PADRES	BUELLTON 1101	30
	SISQUOC 1103	2
	TEMPLETON 2109	22
NORTH BAY	CALISTOGA 1101	41
	PUEBLO 1104	51
NORTH COAST	ANNAPOLIS 1101	10
	FORT ROSS 1121	78
	MIRABEL 1102	15
	MONTE RIO 1111	6
	MONTE RIO 1113	27
	OLEMA 1101	35
	SALMON CREEK 1101	378
NORTH VALLEY	CRESCENT MILLS. 2101	207
	ESQUON 1101	15
	ESQUON 1103	1
	GANSNER 1101	128
	GERBER 1102	21
	ORLAND STATION B 1103	5
SACRAMENTO	ARBUCKLE 1102	5
	RICE 1102	15
SAN JOSE	MC KEE 1103	4
SIERRA	EL DORADO P H 2101	464
	PEASE 1103	2
	TAMARACK 1101	23
	TUDOR 1101	5
STOCKTON	EIGHT MILE 2102	17
YOSEMITE	LIVINGSTON 1105	42
	MERCED FALLS 1102	1
	OAKHURST 1103	42
	SPRING GAP 1701	142

Attachment 1  
 1996 - Customers Experiencing > 12 Sustained Outages

Division	Feeder Name	Number of Customers Experiencing > 12 Sustained Outages
Central Coast	BEN LOMOND 0401	100
	BEN LOMOND 1101	775
	CAMP EVERS 2105	353
	HOLLISTER 2102	30
	LOMPICO 0401	90
	LOS COCHES 1101	22
	LOS COCHES 1102	31
	OTTER 1101	3
	OTTER 1102	22
	POINT MORETTI 1101	81
	ROB ROY 2104	243
	SAN ARDO 1102	53
De Anza	None	
Diablo	None	
East Bay	SUBSTATION X 1102	19
Fresno	BIOLA 1103	2
	DINUBA 1105	42
	SAN JOAQUIN 1112	6
Kern	CUYAMA 2102	28
	LAKEVIEW 1103	6
	MAGUNDEN 2109	2
Los Padres	TEMPLETON 2108	1908
Mission	None	
North Bay	PUEBLO 2103	76
North Coast	CLEAR LAKE 1101	28
	GEYSERVILLE 1101	9
	MIRABEL 1101	45
	MONTE RIO 1111	20
North Valley	CARIBOU 2102	52
	CEDAR CREEK 1101	13
	CRESCENT MILLS. 2101	53
	ELK CREEK 1101	22
	LOGAN CREEK 2101	266
	MC ARTHUR 1101	23
Peninsula	HALF MOON BAY 1103	110
	WOODSIDE 1101	20
Sacramento	COLUSA 1103	40
	CORDELIA 1104	53
San Francisco	None	
San Jose	None	
Sierra	EL DORADO P H 2101	1058
Stockton	LINDEN 1103	7
	LOCKEFORD SUB 2102	33
	NEW HOPE 1101	27
	WEST POINT 1101	328



Attachment 1  
 1996 - Customers Experiencing > 12 Sustained Outages

Division	Feeder Name	Number of Customers Experiencing > 12 Sustained Outages
Yosemite	CANAL 1105	12
	LIVINGSTON 1101	13
	ATWATER 1102	25
	MERCED FALLS 1102	8
	MIWUK SUB 1701	181
	STOREY 1109	9
	CASSIDY 1102	11

Note: Values exclude planned outages and major events

6358

Attachment 1  
1995 - Customers Experiencing > 12 Sustained Outages

Division	Feeder Name	Number of Customers Experiencing > 12 Sustained Outages
CENTRAL COAST	CAMP EVERS 2104	8
	CAMP EVERS 2105	47
	LOS COCHES 1101	22
	ROB ROY 2104	14
FRESNO	BIOLA 1103	1
LOS PADRES	CHOLAME 2102	16
	TEMPLETON 2108	2
NORTH COAST	BIG RIVER 1101	124
	GARBERVILLE 1102	50
	HOOPA 1101	3
	MIRABEL 1101	30
	MONTE RIO 1113	92
NORTH VALLEY	CHALLENGE 1102	1
	CHICO STATION B 1103	1
	CORNING 1103	14
	CRESCENT MILLS. 2101	15
	GERBER 1102	2
	HAMILTON BRANCH 1101	44
	JACINTO 1101	1
	LOGAN CREEK 2102	4
	PANORAMA 1101	10
	PEACHTON 1101	501
SACRAMENTO	CORDELIA 1104	17
	GRAND ISLAND 2224	150
SAN JOSE	HICKS 2103	4
SIERRA	ALLEGHANY 1101	560
	DOBBINS 1101	37
	EL DORADO P H 2101	716
STOCKTON	CORRAL 1101	26
	OLETA 1102	49
	RIPON 1704	196
YOSEMITE	CURTIS 1704	61
	EL CAPITAN 1102	2
	MIWUK SUB 1701	42
	MIWUK SUB 1702	7
	OAKHURST 1103	422
	PEORIA FLAT 1701	835
	SANTA NELLA 1102	9
SPRING GAP 1701	747	