

PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE  
SAN FRANCISCO, CA 94102-3298

Tel. No. (415) 703-1691



October 24, 2006

Advice Letter 2800-E

Ms Rose de la Torre  
Pacific Gas and Electric Company  
77 Beale Street, Room 1088  
Mail Code B10C  
San Francisco, CA 94105

Subject: Reliability Incentive Mechanism Results for Performance Year 2005

Dear Ms de la Torre:

Advice Letter 2800-E is effective October 19, 2006 by Resolution E-4003. A copy of the advice letter and resolution are sent herewith for your records.

Sincerely,

Sean H. Gallagher  
Director  
Energy Division

<b>REGULATORY RELATIONS</b>	
Tariffs Section	
M Brown	D Poster
R Dela Torre	S Ramaiya
B Lam	
OCT 25 2006	
Return to	Records
	File
cc to	



**Brian K. Cherry**  
Director  
Regulatory Relations

77 Beale Street, Room 1087  
San Francisco, CA 94105

*Mailing Address*  
Mail Code B10C  
Pacific Gas and Electric Company  
P.O. Box 770000  
San Francisco, CA 94177

415.973.4977  
Internal: 223.4877  
Fax: 415.973.9572  
Internet: BKC7@pge.com

March 9, 2006

**ADVICE 2800-E**

(Pacific Gas and Electric Company ID U 39 E)

Public Utilities Commission of the State of California

**Subject: Reliability Incentive Mechanism Results For Performance Year  
2005**

**Purpose**

The purpose of this filing is to submit revisions to electric Preliminary Statement Part CZ--*Distribution Revenue Adjustment Mechanism*. Pacific Gas and Electric Company (PG&E) is requesting the Commission adopt these tariff changes in order to implement the Reliability Incentive Mechanism (RIM) established in Decision (D.) 04-10-034. Also in this filing, PG&E requests that the Commission approve the RIM rewards and/or penalties for 2005 based on the final performance results presented in PG&E's Annual Distribution Reliability Report for 2005, submitted to the Commission on March 1, 2006, and attached hereto for reference.

**Background**

Decision 96-09-045 adopted recording and reporting requirements related to the frequency and duration of electric system outages. Among other things, this decision requires each electric distribution utility to submit an annual report to the Commission by March 1 with statistics regarding system reliability performance for the previous calendar year. The report includes SAIDI (System Average Interruption Duration Index), SAIFI (System Average Interruption Frequency Index) and MAIFI (Momentary Average Interruption Frequency Index) recorded data.<sup>1</sup>

---

<sup>1</sup> SAIDI measures the average duration of outages per customer during a specified time period. It is calculated by dividing the total minutes of sustained customer interruptions by the total number of customers. SAIFI measures the average number of sustained power interruptions for each customer during a specified time period. It is calculated by dividing the total number of sustained customer interruptions by the total number of customers. MAIFI measures the average number of momentary interruptions for each customer during a specified time period. It is calculated by dividing the total number of momentary interruptions by the total number of customers.

Pursuant to D.04-10-034, the Commission adopted a RIM for PG&E. The RIM establishes individual annual SAIDI and SAIFI performance targets for the years 2005-2007. The targets and parameters for PG&E's RIM are provided below.

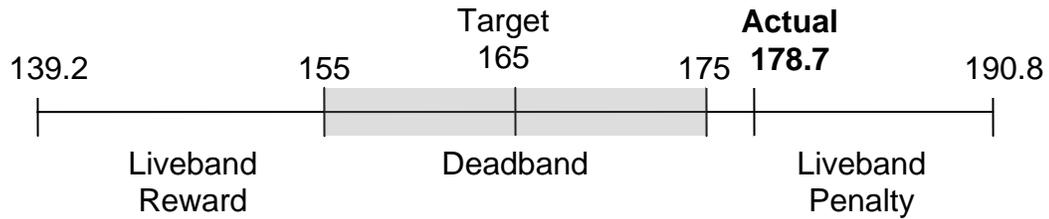
	<b>SAIDI excluding Major Events</b>	<b>SAIFI excluding Major Events</b>
2005	165	1.40
2006	161	1.33
2007	157	1.24
Deadbands	10 min/yr	0.10 outages/yr
Livebands	15.8 min/yr	0.15 outages/yr
Max Annual Reward/Penalt y	\$12 million	\$12 million

For performance year 2005, PG&E's SAIDI target was 165 total minutes and its SAIFI target was 1.4 interruptions per customer. These targets exclude major events as defined in D.96-09-045.

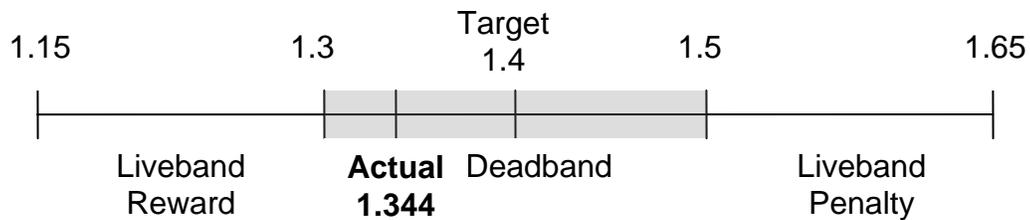
### **SAIDI / SAIFI Results**

On March 1, 2006, PG&E submitted its "Annual Distribution Reliability Report for 2005," attached as Attachment 2. Table 1 of that report shows PG&E's 1996-2005 system reliability indices for SAIDI, SAIFI and MAIFI. As explained in the report, PG&E's 2005 SAIDI and SAIFI values were adjusted to reflect excludable major events and for the results of a study performed by EPRI Solutions, Inc. These results are illustrated graphically below in relation to the RIM performance targets adopted by the Commission.

### 2005 SAIDI (Outage Minutes / Customer)



### 2005 SAIFI (Interruptions / Customer)



PG&E relied upon the adjusted 2005 SAIDI and SAIFI values contained in the March 1 report to calculate the 2005 incentive rewards and/or penalties under the RIM. As illustrated above, PG&E's performance for 2005 is in the penalty liveband for SAIDI and in the deadband for SAIFI. Because PG&E's SAIFI results are within the deadband, there is no reward or penalty for this metric. Because PG&E's SAIDI results are outside the deadband, a penalty will be assessed. PG&E calculates that for 2005, a net penalty of \$2,810,128 applies.<sup>2</sup>

#### Accounting Methodology

PG&E recommends that Preliminary Statement Part CZ--*Distribution Revenue Adjustment Mechanism* (DRAM) be modified to allow PG&E's distribution revenue requirement to be adjusted to reflect any rewards or penalties incurred under the RIM. Included in this Advice Letter as Attachment 1 are revised tariff sheets with PG&E's proposed changes to the DRAM. These changes would allow PG&E to debit DRAM for rewards and credit DRAM for penalties incurred under the RIM. The adjustments will be booked annually within 60 days after approval of PG&E's RIM Advice Letter.

<sup>2</sup> The RIM penalty rate for SAIDI is \$759,494 per minute over the Deadband. In 2005, PG&E had a SAIDI of 178.7, 3.7 higher than 175 limit of the deadband, resulting in a penalty of \$2,810,128.

**Effective Date**

PG&E requests that this filing be approved on regular notice, **April 8, 2006**, which is thirty (30) days after the date of this filing.

**Protests**

Anyone wishing to protest this filing may do so by sending a letter by **March 29, 2006**, which is 20 days from the date of this filing. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. Protests should be mailed to:

CPUC – Energy Division  
Attention: Tariff Unit  
505 Van Ness Avenue  
San Francisco, California 94102

Facsimile: (415) 703-2200  
E-mail: [jjr@cpuc.ca.gov](mailto:jjr@cpuc.ca.gov) and [jnj@cpuc.ca.gov](mailto:jnj@cpuc.ca.gov)

Protests also should be sent by e-mail and facsimile to Mr. Jerry Royer, Energy Division, as shown above, and by U.S. mail to Mr. Royer at the above address. A copy of the protest should be sent via e-mail, facsimile and by U.S. mail to:

Pacific Gas and Electric Company  
Attention: Brian Cherry  
Director, Regulatory Relations  
77 Beale Street, Mail Code B10C  
P.O. Box 770000  
San Francisco, California 94177

Facsimile: (415) 973-7226  
E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)

**Notice**

In accordance with General Order 96-A, Section III, Paragraph G, a copy of this advice letter is being sent electronically and via U.S. mail to parties shown on the attached list and on the Service List for PG&E's 2003 GRC Application (A.) 02-11-017. Address changes should be directed to Rose de la Torre at (415) 973-4716. Advice letter filings can also be accessed electronically at:

**<http://www.pge.com/tariffs/>**

*Brian K. Cherry, CRF*

Director – Regulatory Relations

cc: Sean Gallagher, Director, Energy Division  
Brian Schumacher, Energy Division  
David Lee, Energy Division  
Marty Lyons, Division of Ratepayer Advocates  
Service List A.02-11-017

Attachments

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No. Pacific Gas and Electric Company U39M

Utility type:

ELC       GAS  
 PLC       HEAT       WATER

Contact Person: Chris Fan

Phone #: (415) 973-4887

E-mail: ckf4@pge.com

### EXPLANATION OF UTILITY TYPE

ELC = Electric      GAS = Gas  
PLC = Pipeline      HEAT = Heat      WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: **2800-E**

Subject of AL: Reliability Incentive Mechanism Results For Performance Year 2005

Keywords (choose from CPUC listing): Reliability

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other \_\_\_\_\_

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution: D.04-10-034

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL \_\_\_\_\_

Summarize differences between the AL and the prior withdrawn or rejected AL<sup>1</sup>: \_\_\_\_\_

Resolution Required?  Yes  No

Requested effective date: **4-8-2006**

No. of tariff sheets: 3

Estimated system annual revenue effect: (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: Preliminary Statement Part CZ – Distribution Revenue Adjustment Mechanism (DRAM)

Service affected and changes proposed<sup>1</sup>: See advice letter

Pending advice letters that revise the same tariff sheets: Advice 2705-G/2788-E

**Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:**

**CPUC, Energy Division**

**Attention: Tariff Unit**

**505 Van Ness Ave.,**

**San Francisco, CA 94102**

**[jjr@cpuc.ca.gov](mailto:jjr@cpuc.ca.gov) and [jnj@cpuc.ca.gov](mailto:jnj@cpuc.ca.gov)**

**Utility Info (including e-mail)**

**Attn: Brian K. Cherry**

**Director, Regulatory Relations**

**77 Beale Street, Mail Code B10C**

**P.O. Box 770000**

**San Francisco, CA 94177**

**E-mail: [PGETariffs@pge.com](mailto:PGETariffs@pge.com)**

<sup>1</sup> Discuss in AL if more space is needed.

**ATTACHMENT 1  
Advice 2800-E**

<b>Cal P.U.C. Sheet No.</b>	<b>Title of Sheet</b>	<b>Cancelling Cal P.U.C. Sheet No.</b>
24630-E	Preliminary Statement Part CZ--Distribution Revenue Adjustment Mechanism	24043-E
24631-E	Table of Contents -- Preliminary Statements	24308-E
24632-E	Table of Contents -- Rate Schedules	24603-E



PRELIMINARY STATEMENT  
(Continued)

CZ. DISTRIBUTION REVENUE ADJUSTMENT MECHANISM (DRAM) (Cont'd.)

5. ACCOUNTING PROCEDURES: (Cont'd.)

- f. A credit entry equal to the debit entry in the California Alternative Rates for Energy Account (CARE) that corresponds to the actual CARE revenue shortfall. The corresponding debit entry is defined in PG&E's electric Preliminary Statement Part M.
- g. A credit entry equal to the recorded amount of revenue cycle services credits given to customers for revenue cycle services provided by entities other than PG&E.
- h. A credit entry equal to the amount of Shareholder Participation, as defined in Section 6 below.
- i. A debit entry equal to the payment to fund PG&E Environmental Enhancement Corporation plus an allowance for FF&U, pursuant to the Chapter 11 Settlement Agreement Paragraph 17c adopted in Decision 03-12-035.
- j. A debit or credit entry, as appropriate, to record the transfer of amounts from other accounts to the DRAM for recovery in rates, upon approval by the CPUC.
- k. A debit or credit entry, as appropriate, to record any shareholder rewards or penalties under the Reliability Incentive Mechanism adopted in D. 04-10-034. (N)  
(N)
- l. An entry equal to interest on the average balance in the account at the beginning of the month and the balance after the above entries, at a rate equal to one-twelfth of the interest rate on three-month Commercial Paper for the previous month, as reported in the Federal Reserve Statistical Release, H.15 or its successor. (T)

6. SHAREHOLDER PARTICIPATION: PG&E's shareholders bear some responsibility for economic risks and rewards associated with, but not limited to, Commission-approved economic discounts and credits to certain PG&E customers. This section ensures that ratepayers will not assume shareholders' obligations.

Shareholder Participation will be calculated monthly as follows:

The amount of the Shareholder Participation Mechanism for Schedule ED, in accordance with Resolution E-3654.



TABLE OF CONTENTS  
(Continued)

PRELIMINARY STATEMENTS

SCHEDULE	TITLE OF SHEET	CAL P.U.C. SHEET NO.
Part CA	Food Service Technology Center Memorandum Account .....	18781-E
Part CB	DWR/ISO Cost Balancing Account .....	20500-E
Part CC	Real Time Energy Metering Memorandum Account.....	18307,18308-E
Part CD	Kern Restoration and Operation Memorandum Account.....	18509-E
Part CE	Baseline Balancing Account.....	23410,23411-E
Part CF	Net Energy Metering Memorandum Account .....	18831-E
Part CG	Utility Generation Balancing Account .....	24040,24041-E
Part CH	Utility Retained Generation income Tax Memorandum Account.....	20502-E
Part CI	Wholesale DWR/ISO Cost Memorandum Account .....	20503-E
Part CJ	Not Being Used	
Part CK	Distribution Bypass Deferral Rate Memorandum Account .....	20619-E
Part CL	Distributed Energy Resources Memorandum Account.....	19042-E
Part CM	Bond Charge Balancing Account .....	20245,19556-E
Part CN	Research, Development, and Demonstration Balancing Account .....	19371-E
Part CO	Renewables Balancing Account.....	19372-E
Part CP	Energy Resource Recovery Account .....	23762,23998,23999-E
Part CQ	Modified Transition Cost Balancing Account.....	23261,23262,23263,23264,23265-E
Part CR	Common Area Balancing Account .....	19768,19769-E
Part CS	Advanced Metering and Demand Response Account.....	23923,23924,23925,23926-E
Part CT	Direct Access Shortfall Account .....	22416-E
Part CU	Customer Credit Holding Account.....	21533-E
Part CV	Financial Hedging Memorandum Account .....	20631-E
Part CW	Not Being Used	
Part CX	Not Being Used	
Part CY	EI Paso Settlement Electric Memorandum Account.....	20985-E
Part CZ	Distribution Revenue Adjustment Mechanism.....	24042,24630-E (T)
Part DA	Public Purpose Program Revenue Adjustment Mechanism.....	22719-E
Part DB	Nuclear Decommissioning Adjustment Mechanism .....	22720-E
Part DC	Not Being Used	
Part DD	Regulatory Asset Tax Balancing Account .....	21498-E
Part DE	Headroom Account .....	21122-E
Part DF	Electric Reimbursable Fees Balancing Account.....	22722-E
Part DG	DWR Power Charge Balancing Account .....	23266-E
Part DH	Electric Credit Facilities Fees Tracking Account .....	21125-E
Part DI	Procurement Energy Efficiency Balancing Account .....	21172-E

(Continued)



TABLE OF CONTENTS

	<u>CAL P.U.C. SHEET NO.</u>	
Title Page .....	8285-E	
Table of Contents:		
Rate Schedules .....	24632,24589,24588,24587-E	(T)
Preliminary Statements .....	24281,24019,24631-E	(T)
Rules .....	24602-E	
Maps, Contracts and Deviations.....	23053-E	
Sample Forms .....	19880,23984,24586,19236,20509,10572,23225-E	

RATE SCHEDULES

<u>SCHEDULE</u>	<u>TITLE OF SHEET</u>	<u>CAL P.U.C. SHEET NO.</u>
<b>RESIDENTIAL RATES</b>		
E-1	Residential Service .....	24476,24477,,21589,19910,24339,21221-E
E-2	Experimental Residential Time-of-Use Service .....	22122,22326,22327,22328,22329,22122, 22330,22124,22331,21231,21614,21590,22126-E
E-3	Experimental Residential Critical Peak Pricing Service.....	22429,24478,24479,24480, 24481,24087,24482,24089,24483,23082,22501,21243,22436,22437,22438-E
EE	Service to Company Employees .....	24091-E
EM	Master-Metered Multifamily Service .....	24484,24485,21248,20648,24340,21250-E
ES	Multifamily Service .....	24486,24487,21592,23640,24342,21256-E
ESR	Residential RV Park and Residential Marina Service .....	24488,24489,21593,20657,24342,21261-E
ET	Mobilehome Park Service .....	24490,24491,24343,21594,22149,21267-E
E-7	Residential Time-of-Use Service.....	21268,24492,24493,21595,24344,24106-E
E-A7	Experimental Residential Alternate Peak Time-of-Use Service .....	21274,24494,24495,21277,24345,24109-E
E-8	Residential Seasonal Service Option .....	24496,24497,24546,22159-E
E-9	Experimental Residential Time-of-Use Service for Low Emission Vehicle Customers .....	20891,24498,24499,24500,24501,21596,21289,24347,21291-E
EL-1	Residential CARE Program Service.....	24118,24502,21597,24348,24120-E
EML	Master-Metered Multifamily CARE Program Service .....	24349,24503,21299,24123,22170-E
ESL	Multifamily CARE Program Service.....	24304,24305,21598,24351,24352,21307-E
ESRL	Residential RV Park and Residential Marina CARE Program Service .....	24506,24507,21599,24353,24354,21313-E
ETL	Mobilehome Park CARE Program Service .....	24508,24509,21600,22180,24355,21319-E
EL-7	Residential CARE Program Time-of-Use Service .....	21320,24133,24510,21601,24356,21325-E
EL-A7	Experimental Residential CARE Program Alternate Peak Time-of-Use Service .....	21326,24357,24511,19783,24358,21330-E
EL-8	Residential Seasonal CARE Program Service Option .....	24359,24512,24360,22190-E
E-FERA	Family Electric Rate Assistance .....	23963,23964,21643-E
<b>COMMERCIAL/INDUSTRIAL</b>		
A-1	Small General Service .....	24513,24514,24361,24362,21339-E
A-6	Small General Time-of-Use Service.....	22755,23445,24515,24516,21343,24363,21345-E
A-10	Medium General Demand-Metered Service .....	24148,24517,24518,24519,24520,22757,22874,24364,24365,21354,21355-E
A-15	Direct-Current General Service.....	24521,24522,24366,24157-E
E-19	Medium General Demand-Metered Time-of-Use Service .....	24158,24159,24160, 24523,24524,24163,22762,22763,24164,24165,24166,24167,24367,24169, 24170,24171,24172-E
E-20	Service to Customers with Maximum Demands of 1,000 Kilowatts or More .....	24173,24174,24525,24526,24177,22785,24178,22787,24179,24368,24181, 24182,24183,24184-E

(Continued)

March 1, 2006

**BY HAND DELIVERY**

Stephen Larson, Executive Director  
California Public Utilities Commission  
505 Van Ness Avenue  
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 in the above-referenced proceeding. An electronic version is also being sent to you via e-mail for posting on the Commission's website.

Very truly yours,

Louis E. Vincent

LEV/mw

Enclosure

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

## General

This is the 2005 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 (1996-2005)
2.	Significant Outage Events Of 2005
3.	Customers Experiencing >12 Sustained Outages In 2005
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 events per D. 96-09-045
7.	Attachment 4 – Storm Summaries
8.	Attachment 5 – Governor Proclamations
9.	Attachment 6 - Historical (1996-2004) 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 (1996-2005)

Table 1 lists the required final SAIDI, SAIFI, and MAIFI values in accordance with Appendix A of Decision 96-09-045.<sup>1</sup> It should be noted that electric outage notification (EON) devices were installed during 1994-95 to obtain momentary outage information on automatic non-SCADA sectionalizing devices. This deployment accounts for much of the MAIFI increase noted after 1995. As required by Decision 04-10-034, CAIDI values are now included in this report.

**Table 1 - System Indices (1996-2005)**

(Includes Transmission, Distribution and Generation related outages)

YEAR	Major Events Included				Major Events Excluded			
	SAIDI	SAIFI	MAIFI	CAIDI	SAIDI	SAIFI	MAIFI	CAIDI
1996	347.1	2.481	4.836	139.9	178.2	1.728	4.635	103.1
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	168.5	1.419	2.276	118.7	168.0	1.416	2.275	118.6
2001	248.7	1.568	2.247	158.6	211.4	1.447	2.111	146.1
2002	381.8	1.680	2.570	227.3	139.8	1.118	1.995	125.0
2003	198.3	1.345	1.791	147.5	192.4	1.324	1.787	145.3
2004	195.9	1.361	1.789	143.9	195.7	1.360	1.786	143.9
2005	238.0	1.480	1.787	160.9	178.7	1.344	1.688	132.9

<sup>1</sup> As part of the outage reporting review process (see p. 3), PG&E discovered that the program it used to query outage data was incorrectly configured to count outages of less than six minutes as a momentary outage. D. 96-09-045 defines a sustained outage as an outage that lasts at least five minutes. PG&E has corrected the program it uses to query outage data. The values in Table 1 reflect the correct definition of a sustained outage.

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 new 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 (1996-2005)**

(Excludes transmission and generation related outages)

YEAR	Major Events Included			Major Events Excluded		
	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
1996	198.5	1.704	116.5	167.2	1.650	101.4
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	152.3	1.298	117.3	151.8	1.296	117.2
2001	228.2	1.437	158.8	192.1	1.322	145.3
2002	341.2	1.539	221.7	129.7	1.034	125.4
2003	178.9	1.223	146.3	173.1	1.204	143.9
2004	173.3	1.219	142.2	173.1	1.218	142.1
2005	201.4	1.292	155.9	150.7	1.168	129.0

**Table 3 - Transmission System Indices (1996-2005)**

(Excludes distribution and generation related outages)

YEAR	Major Events Included			Major Events Excluded		
	SAIDI	SAIFI	CAIDI	SAIDI	SAIFI	CAIDI
1996	148.3	0.774	191.4	14.8	0.130	113.6
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	0.108	140.6	15.2	0.108	140.6
2001	20.5	0.131	156.7	19.4	0.125	154.5
2002	40.1	0.140	285.9	10.0	0.084	120.1
2003	19.5	0.122	159.7	19.2	0.121	159.5
2004	22.3	0.141	157.7	22.3	0.141	157.8
2005	36.6	0.188	195.1	28.0	0.176	158.8

## **Adjustments to 2005 SAIDI and SAIFI Values**

PG&E has made two adjustments to the SAIDI and SAIFI data. First, it adjusted the January through April 2005 data in accordance with a study performed by EPRI Solutions, Inc. (EPRI Solutions), and, second, PG&E excluded excludable major events per Appendix A of D. 96-09-045. Each of these adjustments is described in greater detail below.

### **The EPRI Solutions Adjustment**

In October 2004, the CPUC adopted a Reliability Incentive Mechanism for PG&E (D. 04-10-034). In 2005, to understand the accuracy of its SAIDI and SAIFI values, the Company retained EPRI Solutions to (1) provide engineering support to produce a statistically valid and defined optimal sample size and sample set, and (2) to use that data to characterize the accuracy of SAIDI and SAIFI values. EPRI began working on this project in June 2005 and issued its report in September 2005.

The report from EPRI Solutions covered outages that occurred during the period January 2005 through April 2005. The analysis concluded that the Company was under-reporting SAIDI by 2.0% ( $\pm$  3%) and over-reporting SAIFI by 1.7% ( $\pm$  0.8%).

PG&E communicated the results of the report to the Energy Division in a meeting at the CPUC on October 20, 2005. At that meeting PG&E committed to adjusting the SAIDI and SAIFI indices for the time period January 2005 through April 2005, consistent with the results of the EPRI Solutions' report.

### **Excludable Major Events**

In addition to the adjustment for the EPRI Solutions report, there were also two excludable major events in 2005, as defined in Appendix A of D. 96-09-045.

The first event was a severe storm that commenced on December 18, 2005. The Governor issued a series of proclamations (attached to this report) that ultimately led to 34 counties being declared a state of emergency. In applying the definition of an excludable major event using the state of emergency criteria, PG&E has excluded outages occurring in seven divisions<sup>2</sup> spanning one to three days (see the table below for details). The Governor's proclamations referred to a "series of severe rain storms ... that commenced on December 19, 2005." However, the storms in fact began on Sunday, December 18, as shown by meteorological data (from National Weather Service – see attachment 4) and newspaper stories reporting the weekend storm on Monday morning. PG&E has excluded outages starting on December 18, 2005, because that is when the storm and accompanying outages began.

---

<sup>2</sup> Six of the divisions included counties that resulted in 98% to 100% of the division area being declared a state of emergency (Diablo, East Bay, North Bay, North Coast, Peninsula and Sacramento) and the other had 68% (Stockton). Other divisions were also significantly affected by the storm, most notably Central Coast Division, but only 9% of Central Coast's area was declared a state of emergency by the Governor, so PG&E is not excluding outages for this division.

The second event was the storm that began on December 30, 2005. PG&E is excluding December 30 and December 31, 2005 for the entire system based on the 10 percent criteria from Appendix A.<sup>3</sup>

Table 4 summarizes each of the adjustments described above.

**Table 4 - Summary of Adjustments to 2005 SAIDI and SAIFI Data**

Line #	Description	Division or System	Date	SAIDI	SAIFI
1	<b>Step 1: January to April adjustment associated with EPRI Solutions Report</b>				
2	Starting point: January - April	SYSTEM	Jan - Apr 2005	65.0	0.449
3	Adjustment Factors (+2.0% for SAIDI and -1.7% for SAIFI, from EPRI report)			0.02	-0.017
4	Resulting adjustment (line 2 multiplied by line 3)			1.30	-0.008
5					
6	<b>Step 2: Annual Adjustment for EPRI Solutions Report</b>				
7	Starting point: January - December data	SYSTEM		236.7	1.487
8	Adjustment values (from line 4)			1.30	-0.008
9	Subtotal (line 7 plus line 8)			238.0	1.479
10					
11	<b>Step 3: Subtract excluded days</b>				
12	Starting point: Excludable December data	DIABLO	18-Dec	0.38	0.003
13		EAST BAY	18-Dec	0.48	0.003
14		NORTH BAY	18-Dec	0.38	0.002
15		NORTH COAST	18-Dec	0.75	0.003
16		PENINSULA	18-Dec	1.03	0.004
17		SACRAMENTO	18-Dec	0.39	0.002
18		STOCKTON	18-Dec	0.18	0.001
19		NORTH COAST	19-Dec	0.27	0.001
20		PENINSULA	19-Dec	0.06	0.001
21		SACRAMENTO	19-Dec	0.08	0.000
22		NORTH COAST	20-Dec	1.11	0.003
23		SYSTEM	30-Dec	2.23	0.009
24		SYSTEM	31-Dec	51.98	0.103
25	Subtotal (Sum of lines 12 thru 24)			59.3	0.135
26					
27	<b>Step 4: Calculate final value</b>				
28	2005 SAIDI & SAIFI excluding major events and adjusted for EPRI Solutions Report (line 9 minus line 25)			178.7	1.344

<sup>3</sup> This storm continued into early January resulting in excludable days in 2006. PG&E will address those outages in the March 1, 2007 reliability report.

## **SECTION 2**

### **Significant Outage Events Of 2005**

Table 5 lists the ten largest outage events experienced during 2005. 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 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.

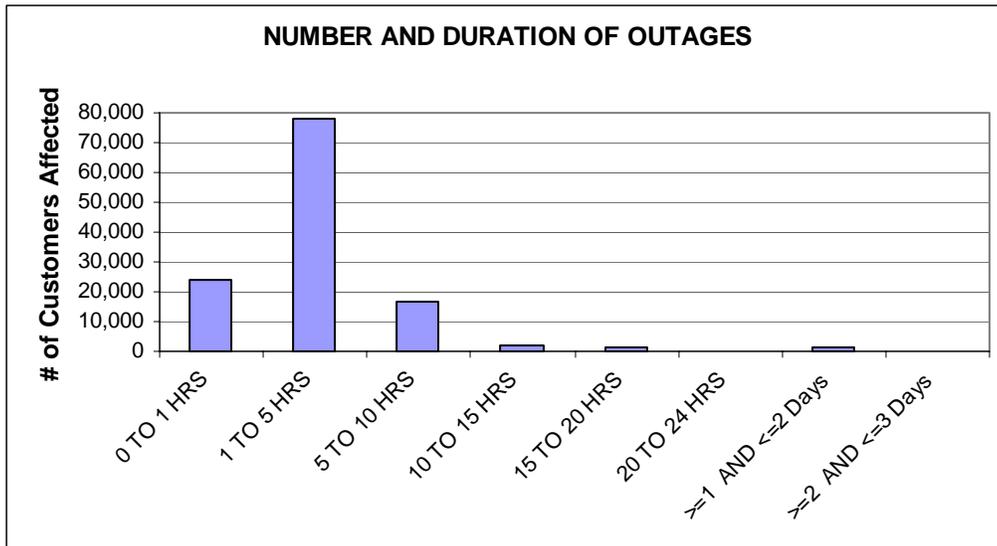
Of the ten largest events listed in Table 5, two events, December 18-20 and December 30-31, met the CPUC definition of a major event. Tables 6 & 7 indicate the number of customers without service at the requested periodic intervals for this event.

**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**

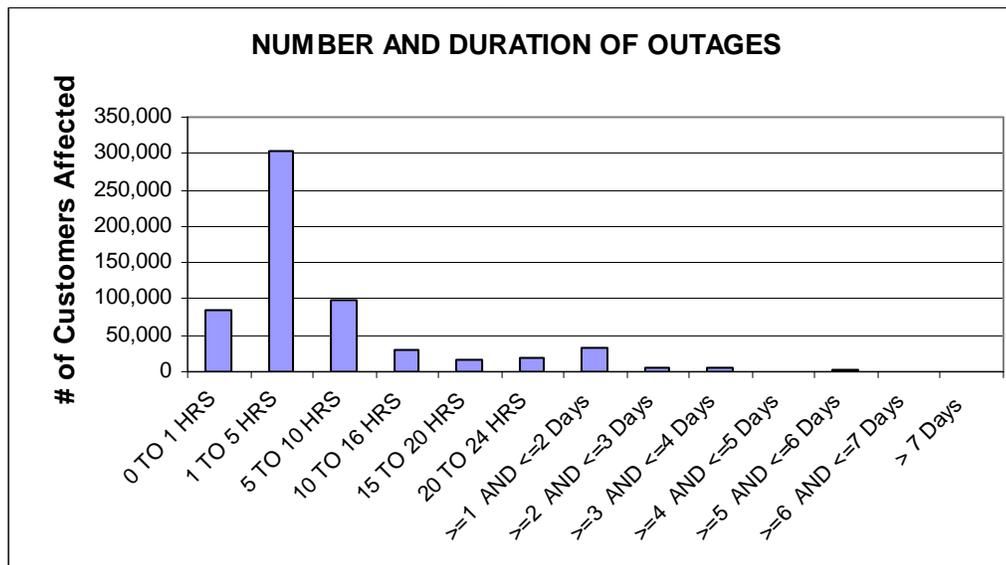


**Table 7 – December 30-31, 2005 Outage Event Duration Summary**

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**



## 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 4**

**Attachment 1**

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

Pacific Gas and Electric  
Division Reliability Indices  
2000-2005  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	CENTRAL COAST	241.8	1.926	3.229	125.5
2001	CENTRAL COAST	319.2	2.183	3.818	146.2
2002	CENTRAL COAST	206.7	1.394	2.444	148.2
2003	CENTRAL COAST	205.7	1.302	2.726	157.9
2004	CENTRAL COAST	453.7	2.438	3.462	186.1
	00-04 Avg	285.4	1.849	3.136	152.8
2005	CENTRAL COAST	300.8	2.148	3.070	140.0
	% Difference	5.4%	16.2%	-2.1%	-8.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	DE ANZA	185.7	1.531	1.821	121.3
2001	DE ANZA	182.0	1.210	1.656	150.5
2002	DE ANZA	101.7	0.839	1.379	121.3
2003	DE ANZA	111.1	0.859	1.601	129.3
2004	DE ANZA	240.8	1.315	1.768	183.2
	00-04 Avg	164.3	1.151	1.645	141.1
2005	DE ANZA	97.1	0.995	1.846	97.6
	% Difference	-40.9%	-13.5%	12.2%	-30.8%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	DIABLO	170.6	1.526	1.945	111.8
2001	DIABLO	103.6	1.119	2.205	92.6
2002	DIABLO	124.0	1.375	1.504	90.2
2003	DIABLO	148.5	1.374	1.512	108.1
2004	DIABLO	142.7	1.325	1.438	107.7
	00-04 Avg	137.9	1.344	1.721	102.1
2005	DIABLO	180.4	1.417	1.694	127.3
	% Difference	30.8%	5.4%	-1.6%	24.7%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	EAST BAY	140.7	1.238	1.252	113.6
2001	EAST BAY	142.3	1.167	1.022	121.9
2002	EAST BAY	112.0	0.981	0.908	114.1
2003	EAST BAY	115.6	1.107	1.182	104.4
2004	EAST BAY	136.1	1.122	1.502	121.3
	00-04 Avg	129.3	1.123	1.173	115.1
2005	EAST BAY	153.7	1.198	1.088	128.2
	% Difference	18.8%	6.7%	-7.3%	11.4%

Pacific Gas and Electric  
Division Reliability Indices  
2000-2005  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	FRESNO	149.8	1.237	3.791	121.1
2001	FRESNO	185.9	1.307	2.920	142.2
2002	FRESNO	161.1	1.324	2.397	121.6
2003	FRESNO	206.5	1.500	2.150	137.7
2004	FRESNO	211.5	1.283	1.677	164.8
	00-04 Avg	183.0	1.330	2.587	137.5
2005	FRESNO	300.8	1.880	1.847	160.0
	% Difference	64.4%	41.3%	-28.6%	16.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	KERN	178.2	1.436	2.495	124.1
2001	KERN	163.3	1.101	1.406	148.2
2002	KERN	151.7	1.204	0.850	125.9
2003	KERN	114.9	1.108	1.072	103.7
2004	KERN	143.8	1.230	1.353	116.9
	00-04 Avg	150.4	1.216	1.435	123.8
2005	KERN	161.1	1.243	1.557	129.6
	% Difference	7.1%	2.2%	8.5%	4.7%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	LOS PADRES	166.1	1.753	2.632	94.7
2001	LOS PADRES	145.6	1.403	3.081	103.8
2002	LOS PADRES	121.1	1.178	2.239	102.7
2003	LOS PADRES	111.0	1.260	2.101	88.0
2004	LOS PADRES	158.7	1.368	2.119	116.0
	00-04 Avg	140.5	1.392	2.434	101.0
2005	LOS PADRES	153.7	1.189	1.816	129.3
	% Difference	9.4%	-14.6%	-25.4%	28.0%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	MISSION	92.4	1.108	1.461	83.4
2001	MISSION	87.3	1.208	1.120	72.3
2002	MISSION	65.5	0.823	0.901	79.6
2003	MISSION	73.8	0.885	1.038	83.4
2004	MISSION	75.5	0.974	0.949	77.5
	00-04 Avg	78.9	1.000	1.094	79.2
2005	MISSION	100.3	1.011	0.958	99.2
	% Difference	27.1%	1.1%	-12.4%	25.2%

Pacific Gas and Electric  
Division Reliability Indices  
2000-2005  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	NORTH BAY	149.4	1.573	2.579	95.0
2001	NORTH BAY	158.0	1.341	3.105	117.9
2002	NORTH BAY	138.3	1.212	1.683	114.1
2003	NORTH BAY	169.0	1.544	2.202	109.4
2004	NORTH BAY	203.2	1.547	2.517	131.3
	00-04 Avg	163.6	1.443	2.417	113.5
2005	NORTH BAY	103.6	1.017	1.892	101.8
	% Difference	-36.7%	-29.5%	-21.7%	-10.3%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	NORTH COAST	267.5	1.724	3.669	155.2
2001	NORTH COAST	361.8	2.113	2.176	171.2
2002	NORTH COAST	223.4	1.181	6.239	189.2
2003	NORTH COAST	326.8	1.701	2.025	192.2
2004	NORTH COAST	284.2	1.595	1.720	178.2
	00-04 Avg	292.7	1.663	3.166	177.2
2005	NORTH COAST	250.5	1.462	2.030	171.3
	% Difference	-14.4%	-12.1%	-35.9%	-3.3%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	NORTH VALLEY	218.9	1.572	3.131	139.3
2001	NORTH VALLEY	431.4	2.232	3.400	193.3
2002	NORTH VALLEY	231.4	1.428	3.742	162.0
2003	NORTH VALLEY	477.1	1.814	2.845	263.0
2004	NORTH VALLEY	257.9	1.513	2.837	170.4
	00-04 Avg	323.3	1.712	3.191	185.6
2005	NORTH VALLEY	258.8	1.675	2.135	154.5
	% Difference	-20.0%	-2.1%	-33.1%	-16.8%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	PENINSULA	118.8	1.190	1.530	99.8
2001	PENINSULA	151.6	1.252	2.103	121.1
2002	PENINSULA	106.1	1.004	1.665	105.7
2003	PENINSULA	130.8	1.198	1.628	109.1
2004	PENINSULA	137.2	1.194	1.886	114.9
	00-04 Avg	128.9	1.168	1.762	110.1
2005	PENINSULA	96.9	0.901	1.358	107.5
	% Difference	-24.8%	-22.8%	-22.9%	-2.4%

Pacific Gas and Electric  
Division Reliability Indices  
2000-2005  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	SACRAMENTO	151.7	1.300	2.344	116.7
2001	SACRAMENTO	216.0	1.164	2.292	185.6
2002	SACRAMENTO	165.4	1.277	2.508	129.5
2003	SACRAMENTO	214.5	1.134	2.361	189.1
2004	SACRAMENTO	183.6	1.241	1.785	147.9
	00-04 Avg	186.2	1.223	2.258	153.8
2005	SACRAMENTO	168.7	1.086	1.744	155.3
	% Difference	-9.4%	-11.2%	-22.8%	1.0%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	SAN FRANCISCO	71.6	0.876	0.484	81.7
2001	SAN FRANCISCO	88.2	0.882	0.297	100.0
2002	SAN FRANCISCO	69.9	0.648	0.344	107.8
2003	SAN FRANCISCO	280.0	1.106	0.284	253.2
2004	SAN FRANCISCO	78.9	0.822	0.223	96.0
	00-04 Avg	117.7	0.867	0.326	127.7
2005	SAN FRANCISCO	97.5	0.914	0.296	106.6
	% Difference	-17.2%	5.4%	-9.3%	-16.5%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	SAN JOSE	142.6	1.276	1.886	111.7
2001	SAN JOSE	106.6	1.065	1.057	100.1
2002	SAN JOSE	108.4	0.931	0.765	116.4
2003	SAN JOSE	156.7	1.231	0.926	127.3
2004	SAN JOSE	136.2	1.109	0.731	122.9
	00-04 Avg	130.1	1.122	1.073	115.7
2005	SAN JOSE	96.3	0.933	0.693	103.2
	% Difference	-26.0%	-16.9%	-35.4%	-10.8%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	SIERRA	288.4	1.493	2.356	193.1
2001	SIERRA	580.2	1.990	2.968	291.6
2002	SIERRA	177.5	1.207	2.165	147.1
2003	SIERRA	227.2	1.489	2.876	152.6
2004	SIERRA	295.3	1.600	2.512	184.6
	00-04 Avg	313.7	1.556	2.575	193.8
2005	SIERRA	162.0	1.199	1.708	135.2
	% Difference	-48.4%	-22.9%	-33.7%	-30.2%

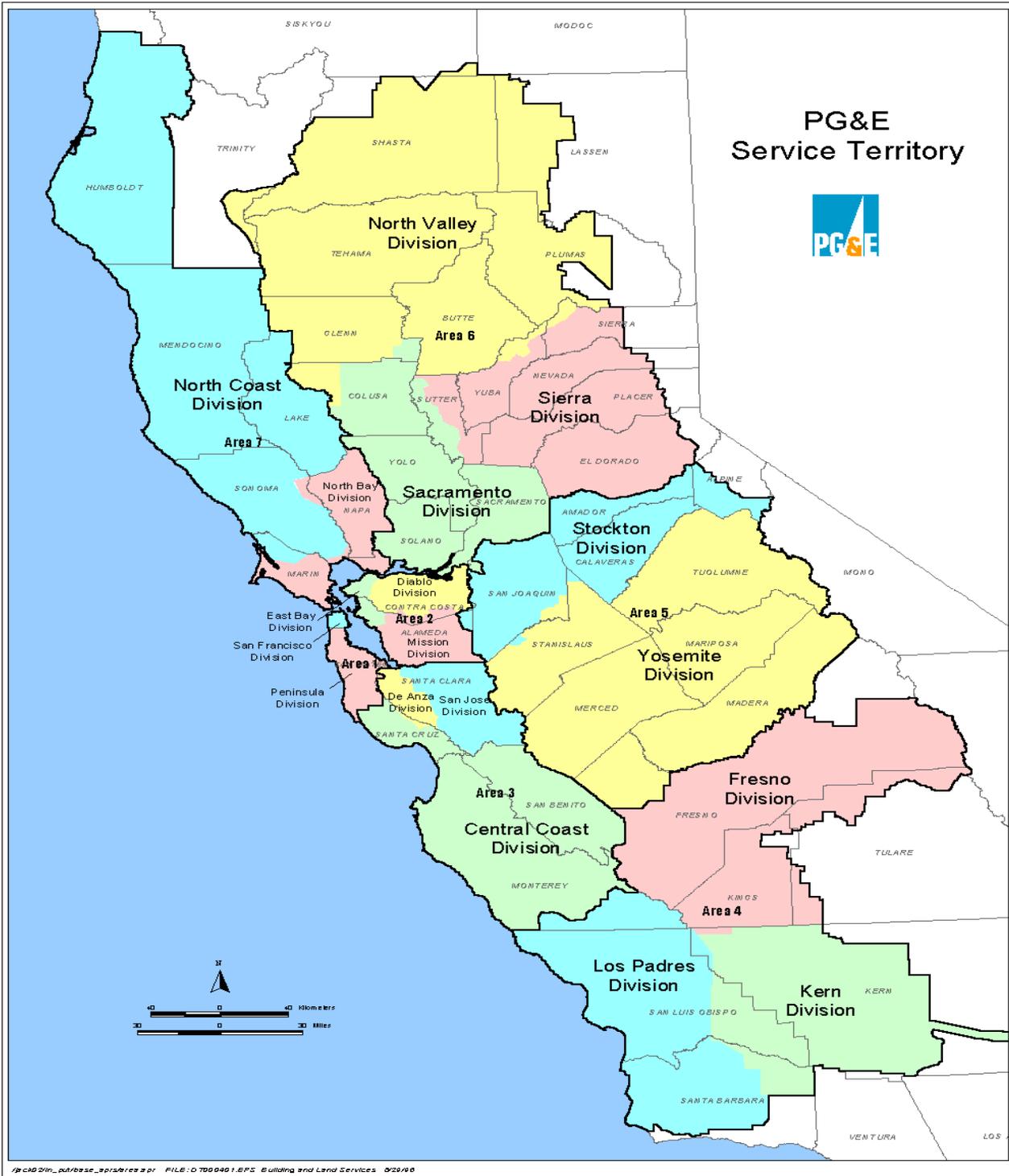
Pacific Gas and Electric  
Division Reliability Indices  
2000-2005  
(Excluding Major Events)

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	STOCKTON	162.5	1.441	1.426	112.8
2001	STOCKTON	268.9	1.784	1.550	150.7
2002	STOCKTON	181.2	1.322	1.832	137.1
2003	STOCKTON	210.4	1.755	1.885	119.9
2004	STOCKTON	249.9	1.566	2.602	159.5
	00-04 Avg	214.6	1.574	1.859	136.0
2005	STOCKTON	252.2	2.218	2.840	113.7
	% Difference	17.5%	41.0%	52.8%	-16.4%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	YOSEMITE	226.4	1.971	4.141	114.9
2001	YOSEMITE	318.6	2.111	4.287	150.9
2002	YOSEMITE	137.6	1.260	3.310	109.1
2003	YOSEMITE	206.5	1.642	3.835	125.8
2004	YOSEMITE	239.7	1.763	3.186	136.0
	00-04 Avg	225.8	1.749	3.752	127.3
2005	YOSEMITE	280.2	2.018	3.500	138.9
	% Difference	24.1%	15.4%	-6.7%	9.1%

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2000	SYSTEM	168.0	1.416	2.275	118.6
2001	SYSTEM	211.4	1.447	2.111	146.1
2002	SYSTEM	139.8	1.118	1.995	125.0
2003	SYSTEM	192.4	1.324	1.787	145.3
2004	SYSTEM	195.7	1.360	1.786	143.9
	00-04 Avg	181.5	1.333	1.991	135.8
2005	SYSTEM	178.7	1.344	1.688	132.9
	% Difference	-1.5%	0.8%	-15.2%	-2.1%

**SECTION 5**  
**Attachment 2**  
**PG&E Service Territory Map**



**SECTION 6**

**Attachment 3**

**Summary list of excludable events per D. 96-09-045**

Date	Description	Reason
12/30/2005 - 12/31/2005	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
12/21/1996 - 12/22-1996	Snow levels at the 2,500' level across the Central Sierra with snowfall rates in the 3-4 inch per hour range and accumulations as high as two feet at 3000 feet on the 21st.	Declared State of Emergency
8/10/1996	Out of State Transmission Disturbance--Oregon	10% customer criteria
7/2/1996	Out of State Transmission Disturbance--Idaho	10% customer criteria
12/10/1995 - 12/16/1995	Major Storm	10% customer criteria
03/08/1995 - 03/14/1995	Major Storm	10% customer criteria
01/04/1995 - 01/14/1995	Major Storm	10% customer criteria

**SECTION 7**  
**Attachment 4**  
**Storm Summaries**

## Storm Summaries; December 17-20, 2005

Weather conditions in the PG&E service area for the period December 17<sup>th</sup> through 20<sup>th</sup> are described in the following paragraphs. Peak winds speeds and daily rainfall amounts at various airport locations in the service area are summarized in Table 1.

**Table 1: Daily Peak Wind Speeds and Daily Rainfall Totals\*, Dec 17-20, 2005**

DATE LOCATION	17-Dec		18-Dec		19-Dec		20-Dec	
	Pk WS MPH	Precip Inches						
Crescent City	17	0.05	38	1.03	39	1.97	51	0.54
Arcata	M	0.11	41	1.28	37	1.31	48	0.76
Eureka	23	0.10	39	1.29	36	1.10	39	0.77
Ukiah	M	0.18	21	2.29	22	1.39	17	0.89
Santa Rosa	13	0.47	26	2.43	23	0.28	13	0.6
Napa	36	0.38	38	2.18	18	0.08	23	0.27
San Francisco	20	1.26	53	1.77	25	0.13	30	T
Oakland	22	0.79	36	1.93	29	0.10	M	0.01
Concord	17	0.16	32	1.95	10	T	M	0.06
Livermore	21	0.47	30	1.10	14	0.02	M	0.01
Hayward	22	0.21	33	0.74	26	0.22	M	0.07
San Jose	31	0.34	36	1.02	29	T	25	0
Mt. View	24	0.33	26	1.34	26	T	20	0
Watsonville	12	0.72	21	2.58	14	0.00	M	0
Salinas	31	0.11	38	0.85	28	0.01	20	0
Monterey	16	0.13	35	0.59	13	T	M	0
Paso Robles	24	0.00	26	0.36	10	0.00	26	0
Santa Maria	24	0.00	36	0.02	14	0.00	26	0
Redding	8	0.11	17	1.67	37	0.80	16	0.97
Red Bluff	10	0.13	32	1.36	33	0.56	21	0.87
Sacramento	12	0.31	38	1.76	25	0.03	14	0.03
Stockton	18	0.33	40	1.04	23	0.15	20	0
Modesto	16	0.14	33	0.55	18	0.04	16	0
Merced	18	T	29	M	20	0.00	16	0
Madera	22	0.03	31	0.56	20	0.01	21	0
Fresno	15	0.04	20	0.56	14	T	18	0
Hanford	15	0.07	12	0.21	7	T	13	0
Bakersfield	10	T	17	0.01	9	0.00	15	0

T=Trace; M=Missing

\* Source: National Weather Service 'Preliminary Local Climatological Data' (F6) Reports

### December 17, 2005

Showery, breezy weather was reported in the PG&E service area Saturday December 17, 2005. Winds gusts were generally less than 30 mph, however a few Bay Area sites reported slightly stronger gusts (Napa, 36 mph; San Jose, 31 mph; Salinas, 31 mph). Rainfall totals for the day were generally less than one-half inch; although portions of the Bay area received more (San Francisco Airport, 1.26 inches; Watsonville, 0.72 inches).

## **December 18, 2005**

A strong cold front crossed the PG&E service area on Sunday, December 18, 2005. Several observations of wind gusts above 40 mph were recorded in the service area; Arcata (41 mph), Santa Rosa-RAWS (41 mph), Mather AFB-Sacramento (44 mph), Rio Vista (49 mph), San Luis Obispo (49 mph). Accompanying the gusty winds were periods of moderate to heavy rain, and some thundershower activity. Thunderstorms were reported in the Bay Area, North Bay and North Coast. Calendar day rainfall totals exceeded two inches in the North Bay (Santa Rosa, 2.43 inches, Napa, 2.18 inches, and Ukiah, 2.29 inches, and Santa Cruz Mountain area (Watsonville, 2.58 inches). North Coast, Sacramento Valley and Bay Area weather stations generally reported between one and two inches of rain.

## **December 19, 2005**

A second weather front crossed the northern section of the service area on Monday, December 19, 2005, delivering wind gusts above 30 mph to Humboldt County (Arcata, 37 mph, Eureka, 36 mph) and the northern Sacramento Valley (Redding, 37 mph; Red Bluff, 33 mph). Peak wind gusts in the North Bay, Bay Area, and lower Sacramento Valley were between 15 and 30 mph, and below 25 mph in the remainder of the service area. Rainfall totals above one inch were reported along the North Coast north of Ukiah (Ukiah, 1.39 inches, Arcata, 1.31 inches. Rainfall totals above one-half inch were reported in the Northern Sacramento Valley, with between zero and one half inch of rain elsewhere.

## **December 20, 2005**

Another weather front crossed the northern portion of the service area on Tuesday, December 20. Wind gusts along the North Coast were stronger than the previous day (Arcata, 48 mph, Eureka, 39 mph), but rain totals were lighter; less than one inch. In the Northern Sacramento Valley, wind gusts were less than 25 mph, and rain totals were between one-half and one inch. Several lightning strikes were reported in the Sacramento Valley on this day. In the Bay Area and Central Coast, wind gusts ranged between 20 and 30 mph, but rainfall totals were near zero. Lower Sacramento Valley and San Joaquin wind gusts were generally below 20 mph, and no rain was recorded in those areas.

## **Summary:**

During the period December 17 through 20, 2005, several weather fronts crossed the PG&E service area. With the exception of the Humboldt County area which recorded highest wind gusts on December 20th, wind gusts were strongest during the December 18<sup>th</sup> event. At nearly every airport weather station, rainfall totals were highest during the December 18<sup>th</sup> storm, especially in the North Bay, Bay Area Sacramento Valley and Central Coast areas.

Submitted Wednesday February 22, 2006

Woody Whitlatch

PG&E Meteorology Services

**SECTION 8**  
**Attachment 5**  
**Governor Proclamations**

[Please click here to return to the previous page.](#)

# Proclamation

## Governor Schwarzenegger Declares State of Emergency in Seven Counties Affected by Storms

EXECUTIVE DEPARTMENT

STATE OF CALIFORNIA



**PROCLAMATION**  
by the  
Governor of the State of California

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 Del Norte, Humboldt, Mendocino, Napa, Sacramento, Sonoma, and Trinity, as a result of a series of severe rainstorms in that area that commenced on December 19, 2005. The series of storms brought unusually heavy rains that caused flooding, mudslides, the accumulation of debris, washed out and damaged roads, and the loss of human life. These counties have proclaimed local emergencies and have requested that I proclaim a state of emergency, because the magnitude of this disaster exceeds the capabilities of the services, personnel, equipment and facilities of these counties. 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 within the counties of Del Norte, Humboldt, Mendocino, Napa, Sacramento, Sonoma, and Trinity.

Pursuant to this proclamation, I hereby direct all agencies of the state government to utilize and employ state personnel, equipment and facilities for the performance of any and all necessary activities to alleviate this emergency as directed by my Office of Emergency Services and in accordance with the State Emergency Plan.

I FURTHER DIRECT that as soon as hereafter possible, this proclamation be filed in the Office of the Secretary of State and that widespread publicity and notice be given of 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 second day of January 2006.

/s/ Arnold Schwarzenegger

Governor of California

\*\*\*

Proclamations are posted as soon as possible but may not always be available on the day they are issued.

[Back to Top of Page](#)

[Please click here to return to the previous page.](#)

[Please click here to return to the previous page.](#)

# Proclamation

## Governor Schwarzenegger Declares State of Emergency in 16 Counties Affected by Storms

EXECUTIVE DEPARTMENT

STATE OF CALIFORNIA



**PROCLAMATION**  
by the  
Governor of the State of California

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 Butte, El Dorado, Lake, Lassen, Marin, Nevada, Placer, Plumas, San Joaquin, San Mateo, Sierra, Siskiyou, Solano, Sutter, Yolo, and Yuba, as a result of a series of severe rainstorms in that area that commenced on December 19, 2005. The series of storms brought unusually heavy rains that caused flooding, mudslides, the accumulation of debris, washed out and damaged roads, and the loss of human life. These counties have proclaimed local emergencies and have requested that I proclaim a state of emergency, because the magnitude of this disaster exceeds the capabilities of the services, personnel, equipment and facilities of these counties. 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 within the counties of Butte, El Dorado, Lake, Lassen, Marin, Nevada, Placer, Plumas, San Joaquin, San Mateo, Sierra, Siskiyou, Solano, Sutter, Yolo, and Yuba.

Pursuant to this proclamation, I hereby direct all agencies of the state government to utilize and employ state personnel, equipment and facilities for the performance of any and all necessary activities to alleviate this emergency as directed by my Office of Emergency Services and in accordance with the State Emergency Plan.

I FURTHER DIRECT that as soon as hereafter possible, this proclamation be filed in the Office of the Secretary of State and that widespread publicity and notice be given of 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 third day of January 2006.

/s/ Arnold Schwarzenegger

Governor of California

\* \* \*

Proclamations are posted as soon as possible but may not always be available on the day they are issued.

[Back to Top of Page](#)

[Please click here to return to the previous page.](#)

[Please click here to return to the previous page.](#)

# Proclamation

## Governor Schwarzenegger Signs State of Emergency for Eleven Counties

### EXECUTIVE DEPARTMENT

### STATE OF CALIFORNIA



### PROCLAMATION by the Governor of the State of California

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, Colusa, Contra Costa, Fresno, Kings, San Luis Obispo, Santa Cruz, Shasta, and Tulare, as a result of a series of severe rainstorms that commenced on December 19, 2005. The series of storms brought unusually heavy rains that caused flooding, mudslides, the accumulation of debris, washed out and damaged roads, and the loss of human life. The demands of the storm exceed the capabilities, services, personnel, equipment, and facilities of these counties. 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 within the counties of Alameda, Alpine, Amador, Colusa, Contra Costa, Fresno, Kings, San Luis Obispo, Santa Cruz, Shasta, and Tulare.

Pursuant to this proclamation, I hereby direct all agencies of the state government to utilize and employ state personnel, equipment, and facilities for the performance of any and all necessary activities to alleviate this emergency as directed by my Office of Emergency Services and in accordance with the State Emergency Plan. I direct the implementation of standing orders numbers one and three to ensure adequate state staffing to expedite disaster response and recovery efforts.

I FURTHER DIRECT that as soon as hereafter possible, this proclamation be filed in the Office of the Secretary of State and that widespread publicity and notice be given of 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 twelfth day of January 2006.

/s/ Arnold Schwarzenegger

Governor of California

\* \* \*

Proclamations are posted as soon as possible but may not always be available on the day they are issued.

[Back to Top of Page](#)

[Please click here to return to the previous page.](#)

**SECTION 9**

**Attachment 6**

**Historical (1996-2004) Outage Information from Prior Reports**

Table 4 - Ten Largest 2004 Outage Events

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

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

**Table 4 - Ten Largest 2002 Outage Events**

Rank	Description	Date	Number of Customer Interruptions *	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
1	During the December 13-21 storms the highest wind speeds were recorded on December 16 when peak winds ranged from 40 to over 80 mph throughout the service area, except for the southern San Joaquin Valley. Peak gusts over 90 mph were recorded at ridgeline sites along the North Coast and Bay Area. Peak winds over 40 mph were reported in the San Joaquin Valley on December 19. In the northern half of the service area between 5 and 15 inches of rainfall was reported, with over 20 inches of rain reported at some stations in the coastal hills north of the Bay Area and Northern Sierra foothills.	12/13 - 12/21	1,973,806	543	3245**	Y
2	During the November 7-8 storms, peak wind speeds ranged from 30 to over 60 mph throughout the service area, except for the southern San Joaquin Valley. Peak gusts over 90 mph were recorded at ridgeline stations in the Bay Area. Storm rainfall totals generally ranged from one to three inches throughout the service area, with over five inches recorded at some stations in the coastal hills.	11/7 - 11/8	885,431	121	3245**	Y
3	A series of storm systems moved through the Service Area during this four day period. These storm systems were accompanied by strong gusty winds, especially on the 28 <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
4	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
5	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
6	Gusty north winds developed over northern and central portions of the Service Area as a strong high pressure system moved into the Great Basin. Peak wind speeds included 37 mph in San Francisco, 35 mph in Red Bluff, 38 mph in Redding, and 37 mph in Stockton.	02/28 - 03/01	93,922	44	Not Requested	N
7	An early summer heat wave affected the area with maximum temperatures in the interior valley in the mid-90s to near 100 deg F. Maximum temperatures on the 29 <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
8	A Transmission system outage occurred in Diablo division.	11/19	59,023	7 Minutes	Not Requested	N
9	A storm system pushed through the Service Area on the 6 <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
10	Gusty north winds occurred in the northern half of the Service Area with 39 mph at Red Bluff, 37 mph at San Francisco, 25 mph at Redding, and 24 mph at Stockton.	03/17	46,065	23	Not Requested	N

\* Note: Values exclude single distribution line transformer and planned outages. Values reflect all customers in PG&E's service territory affected by outages for those dates.

\*\* Note: Values are estimated of the number of PG&E electric field personnel working.

Table 4 - Ten Largest 2001 Outage Events

Rank	Description	Date	Number of Customers Affected *	Longest Customer Interruption (Hours)	Number of People Used To Restore Service	CPUC Major Event?
1	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	599,915	147	Not Requested	Yes
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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

Table 4 - Ten Largest 2000 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 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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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

Note: Values exclude single distribution line transformer and planned outages

Table 4 - Ten Largest 1999 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 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
2	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
3	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
4	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
5	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
6	A heat wave was experienced during this three day period affecting coastal and interior areas. Many interior cities recorded maximums 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
7	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
8	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
9	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
10	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

Note: Values exclude single distribution line transformer and planned outages

Table 2 - Largest 1998 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 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 south 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	1,855,983	222.8	5,200	Yes
2	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.	December 8	* 496,304	7.8	Not requested	Yes
3	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
4	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 110F on August 4.	August 2-5	268,679	28.8	Not requested	No
5	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 51 mph. Strong thundershower activity developed during the afternoon, with 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
6	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 Vaca-Dixon. Most other Central Valley stations recorded wind gusts between 30 and 45 mph.	June 14-16	218,998	46.6	Not requested	No
7	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
8	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
9	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
10	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

Note: 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	322,958	105.6	1086	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.

996 Significant Outage Events

Rank	Date	Description	No. of Customer Interruptions	Estimated Longest Customer Interruption (Hrs)	CPUC Major Event	Estimated No. of People used to Restore Service	Sum of Customer Minutes
1	August 10	Out of State Transmission Disturbance--Oregon	2,244,048	9.2	Y	Note 2	540,100,071
2	July 2	Out of State Transmission Disturbance--Idaho	590,836	2.5	Y	Note 2	18,922,032
3	December 29-31, 1996	A series of strong storm systems brought very high winds, precipitable water content and snow levels. Large portions of Sierra snowpack melted, causing widespread flooding to much of the Central Valley and Russian and Napa rivers.	194,836	40.0	Y	935	32,104,200
4	October 25-26, 1996	A moderate storm brought NW winds and light rain on the 25th. On the 26th, moderately strong winds occurred mainly across the north coast, Bay Area and Sacramento Valley. A wind advisory was issued for the Sacramento Valley and Bay Area.	189,706	26.5	N	775	41,227,839
5	October 29-30, 1996	Heavy showers, thundershowers and gusty winds occurred Oct. 29 along the Central Coast and San Joaquin Valley. On Oct 30, the NWS issued a severe thunderstorm warning for most counties in the San Joaquin Valley. A tornado was reported in Fresno that day.	152,698	57.7	N	415	167,250,083
6	May 15-16, 1996	A series of winter-like weather systems crossed the PG&E Service Area. The storms were moderate in precipitation and wind speeds. The storm affected most of the service territory, but in varying degrees.	134,336	22.6	N	850	10,676,545
7	December 9-10, 1996	A strong system moved through North and Central California during the early morning of Dec 9. Heavy rain fall occurred in the North Coast region. Dec 10 brought strong winds and heavy rain to the North Coast, Bay Area, Central Coast & Sacramento Valley	128,683	36.8	N	930	12,626,251
8	December 21-22, 1996	Snow levels at the 2,500' level across the Central Sierra with snowfall rates in the 3-4 inch per hour range and accumulations as high as two feet at 3000 feet on the 21st.	128,087	190.5	Y	710	10,542,958

1996 Significant Outage Events

Rank	Date	Description	No. of Customer Interruptions	Estimated Longest Customer Interruption (Hrs)	CPUC Major Event	Estimated No. of People used to Restore Service	Sum of Customer Minutes
9	January 16	Strong Pacific Storm System--High winds and heavy rain north of the Monterey-Yosemite Line with widespread wind gusts > 40mph. Sample peak gusts include 75 mph at Angel Island and 68 mph on San Bruno Mountain.	99,678	32.7	N	860	11,764,309
10	April 1, 1997	Severe weather, extending from the city of Galt southward to Merced. Tornadoes spotted in the Stockton/Lodi area.	33,769	14.9	N	60	14,361,900

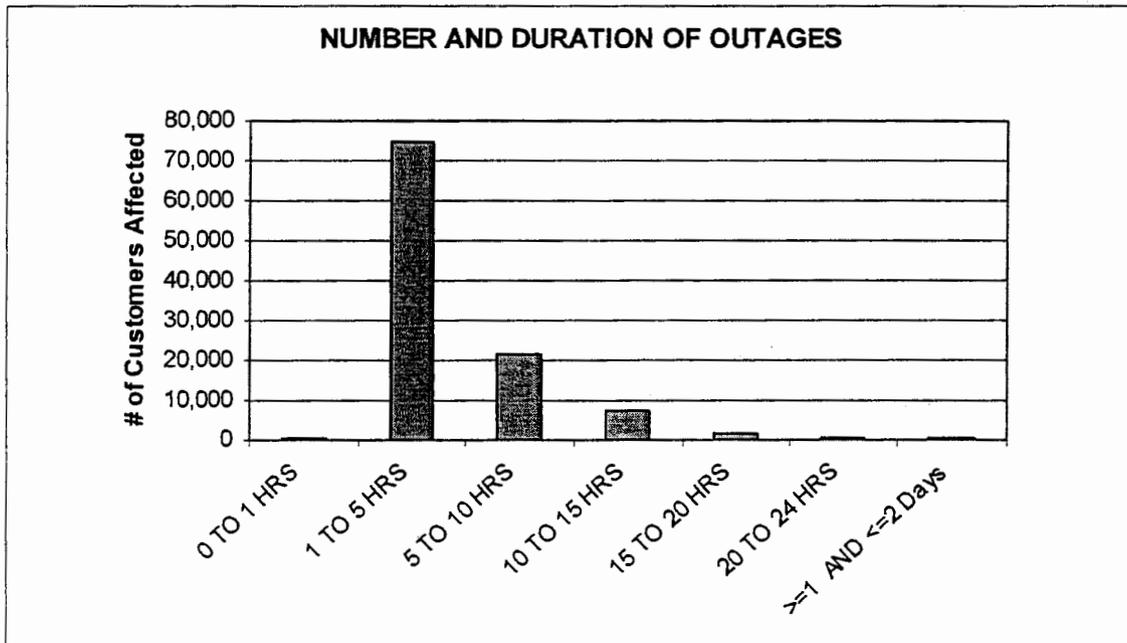
Of the ten largest events listed in 2003, only one event, the December 22 earthquake met the CPUC definition of a major event. Table 5 indicates the number of customers without service at the requested periodic intervals for this request.

**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**



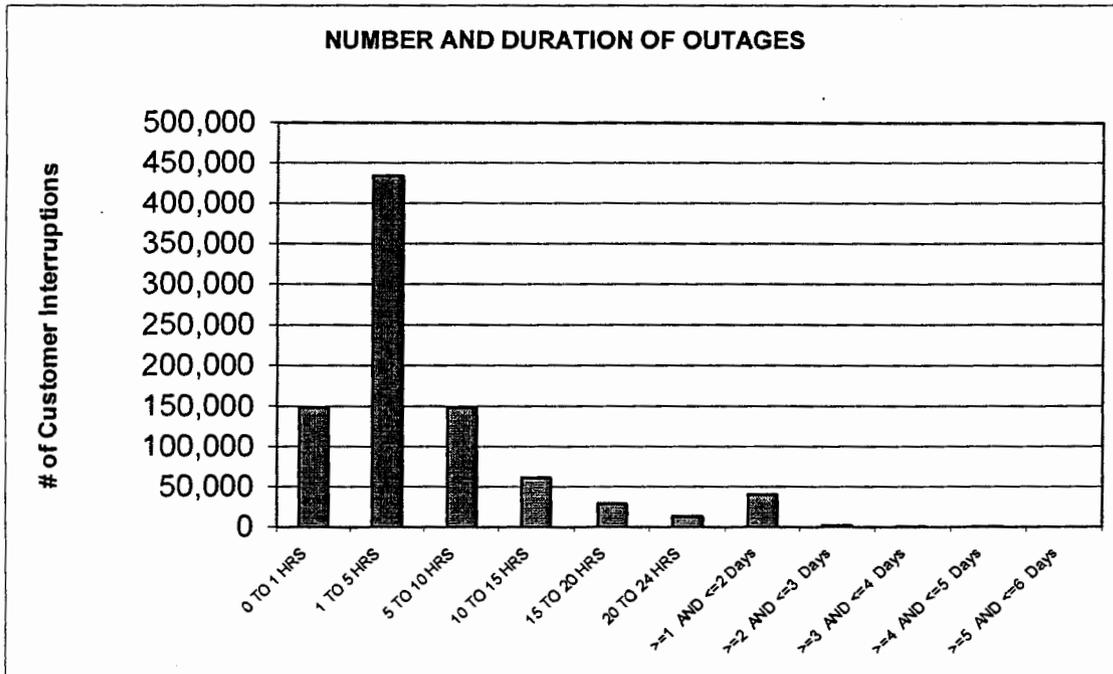
Of the ten largest events listed in Table 4, two events, November 7-8 and December 13-21, met the CPUC definition of a major event. Tables 5 & 6 indicate the number of customers without service at the requested periodic intervals for this event.

**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**

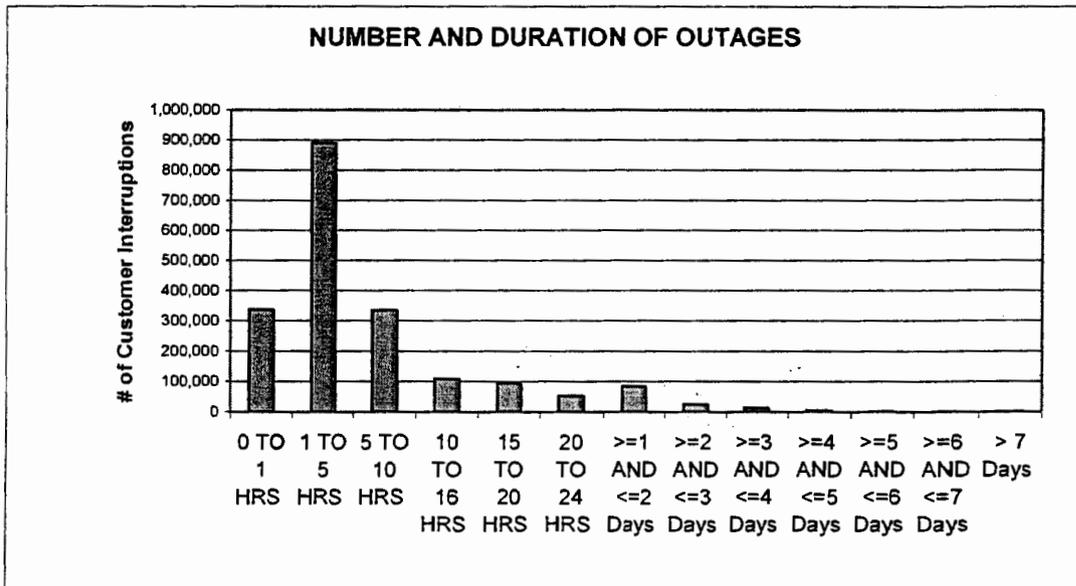


**Table 6 – December 13-21, 2002 Outage Event Duration Summary**

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**

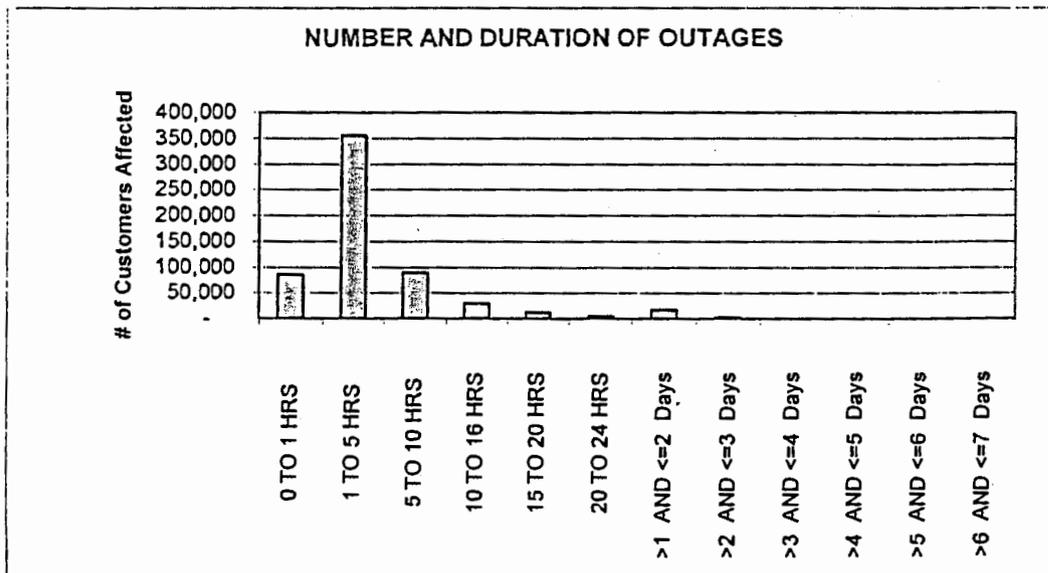


Table 3 - January 31 through February 11, 1998 Outage Event Duration Summary -

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

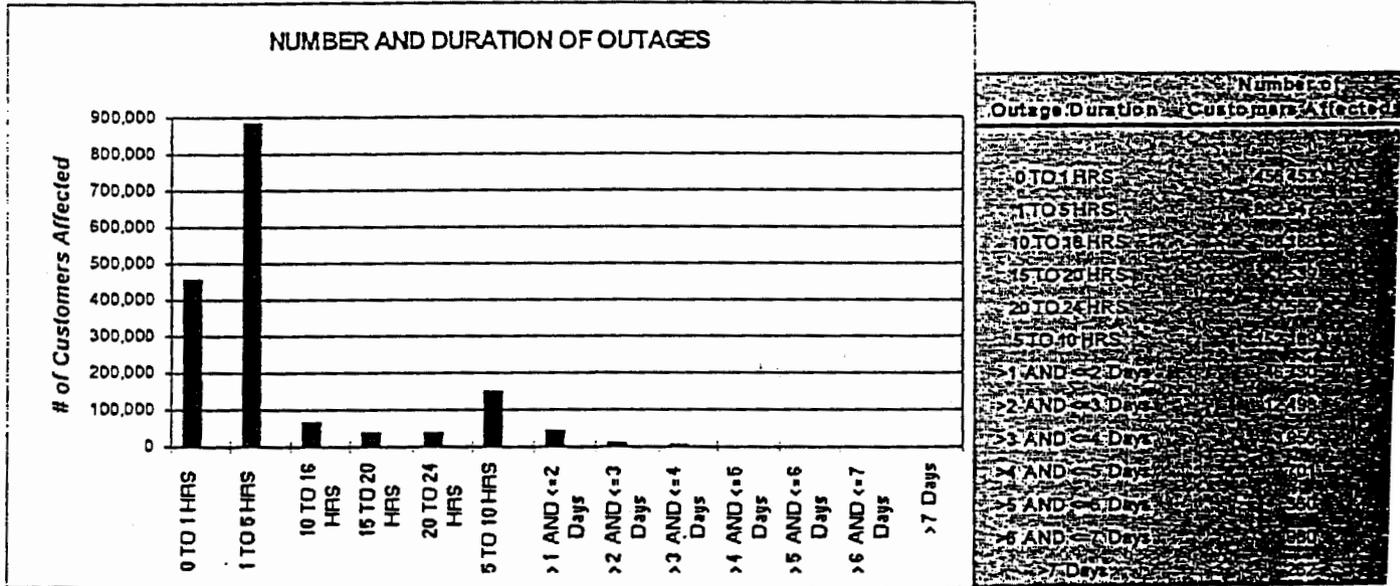
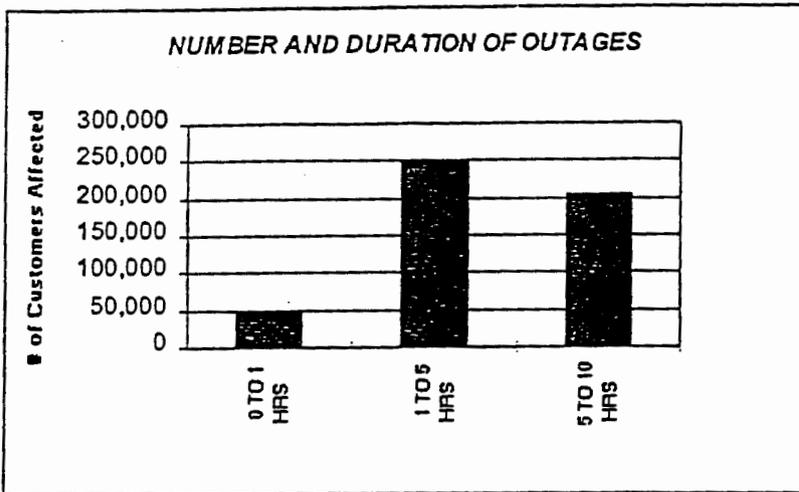


Table 4 - December 8, 1998 Outage Event Duration Summary - Revised March 1, 2000

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

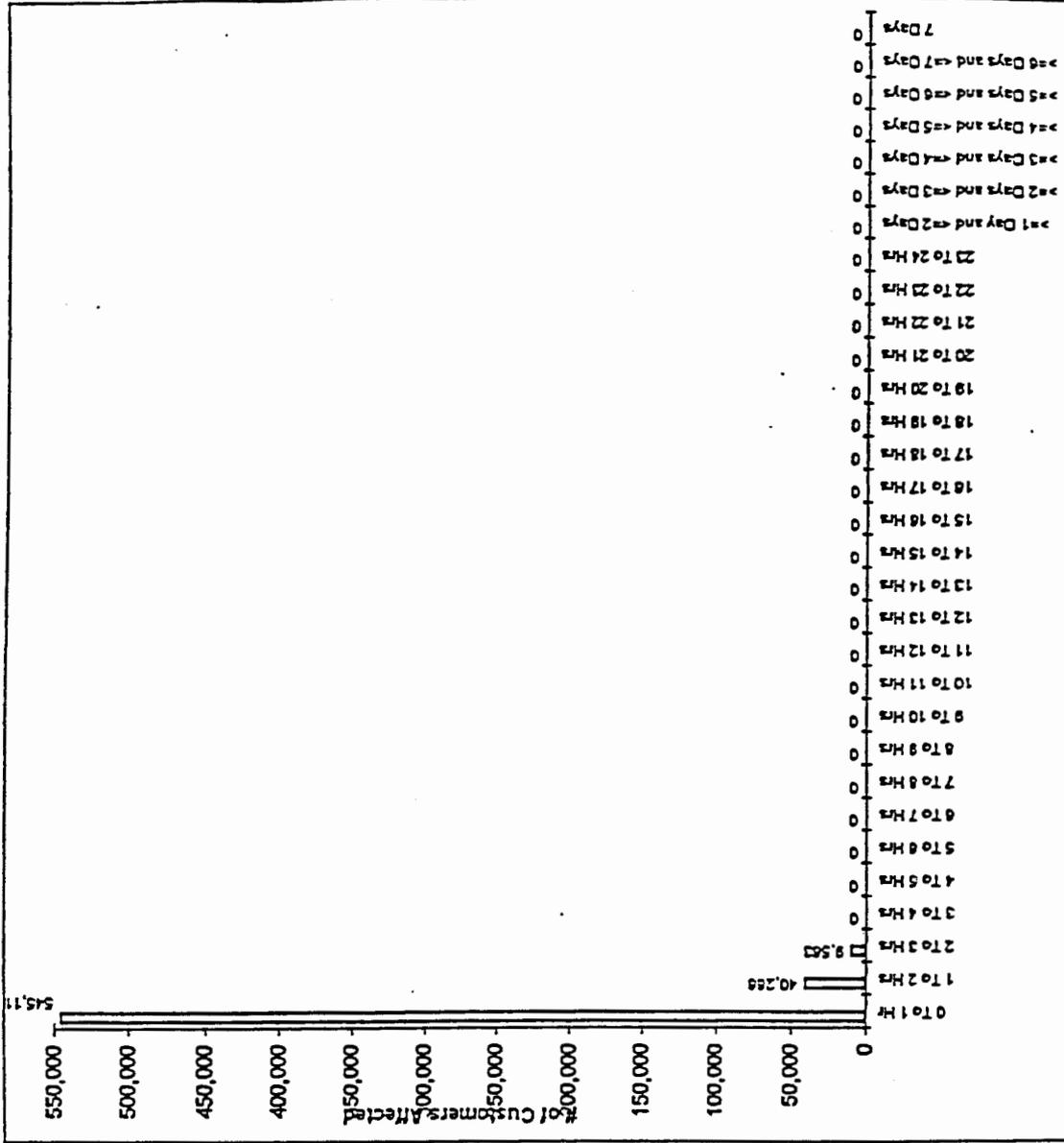


Outage Duration	Number of Customers Affected
0 TO 1 HRS	49,886
1 TO 5 HRS	250,518
5 TO 10 HRS	203,568

Number and Duration of Outages

7/2/96

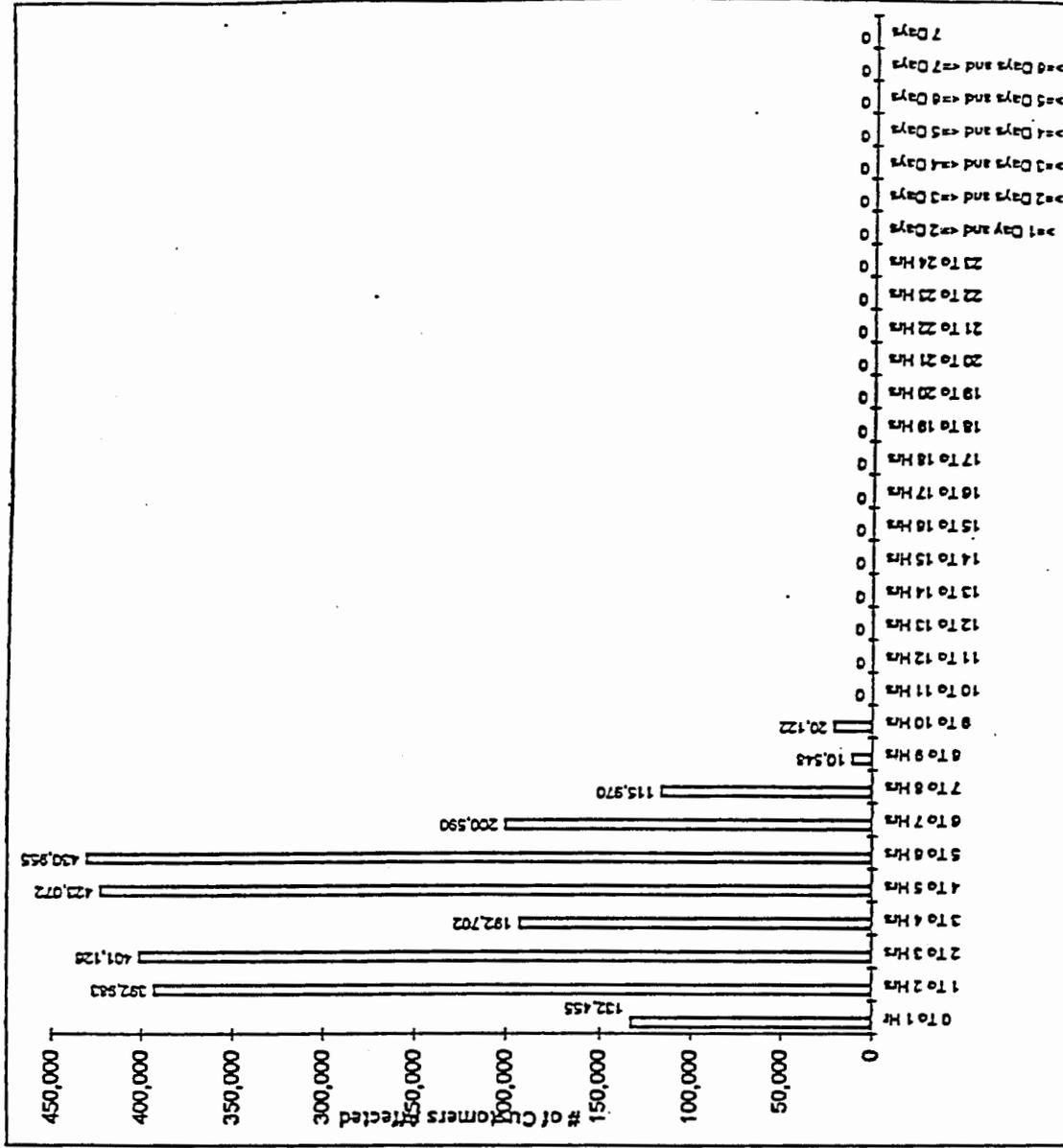
Outage Duration	Customers Affected	Cumulative %
0 To 1 Hr	545,110	91.62%
1 To 2 Hrs	40,266	98.39%
2 To 3 Hrs	9,563	100.00%
3 To 4 Hrs	0	100.00%
4 To 5 Hrs	0	100.00%
5 To 6 Hrs	0	100.00%
6 To 7 Hrs	0	100.00%
7 To 8 Hrs	0	100.00%
8 To 9 Hrs	0	100.00%
9 To 10 Hrs	0	100.00%
10 To 11 Hrs	0	100.00%
11 To 12 Hrs	0	100.00%
12 To 13 Hrs	0	100.00%
13 To 14 Hrs	0	100.00%
14 To 15 Hrs	0	100.00%
15 To 16 Hrs	0	100.00%
16 To 17 Hrs	0	100.00%
17 To 18 Hrs	0	100.00%
18 To 19 Hrs	0	100.00%
19 To 20 Hrs	0	100.00%
20 To 21 Hrs	0	100.00%
21 To 22 Hrs	0	100.00%
22 To 23 Hrs	0	100.00%
23 To 24 Hrs	0	100.00%
>=1 Day and <=2 Days	0	100.00%
>=2 Days and <=3 Days	0	100.00%
>=3 Days and <=4 Days	0	100.00%
>=4 Days and <=5 Days	0	100.00%
>=5 Days and <=6 Days	0	100.00%
>=6 Days and <=7 Days	0	100.00%
7 Days	0	100.00%
<b>Total</b>	<b>594,939</b>	



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%.

Attachment 1  
August 10, 1996  
Number and Duration of Outages

Outage Duration	Customers Affected	Cumulative %
0 To 1 Hr	132,455	5.71%
1 To 2 Hrs	392,983	22.64%
2 To 3 Hrs	401,126	39.93%
3 To 4 Hrs	192,702	48.23%
4 To 5 Hrs	423,072	66.47%
5 To 6 Hrs	430,955	85.04%
6 To 7 Hrs	200,590	93.68%
7 To 8 Hrs	115,970	98.68%
8 To 9 Hrs	10,548	99.13%
9 To 10 Hrs	20,122	100.00%
10 To 11 Hrs	0	100.00%
11 To 12 Hrs	0	100.00%
12 To 13 Hrs	0	100.00%
13 To 14 Hrs	0	100.00%
14 To 15 Hrs	0	100.00%
15 To 16 Hrs	0	100.00%
16 To 17 Hrs	0	100.00%
17 To 18 Hrs	0	100.00%
18 To 19 Hrs	0	100.00%
19 To 20 Hrs	0	100.00%
20 To 21 Hrs	0	100.00%
21 To 22 Hrs	0	100.00%
22 To 23 Hrs	0	100.00%
23 To 24 Hrs	0	100.00%
>=1 Day and <=2 Days	0	100.00%
>=2 Days and <=3 Days	0	100.00%
>=3 Days and <=4 Days	0	100.00%
>=4 Days and <=5 Days	0	100.00%
>=5 Days and <=6 Days	0	100.00%
>=6 Days and <=7 Days	0	100.00%
7 Days	0	100.00%
<b>Total</b>	<b>2,320,523</b>	



Outage Duration	Customers Affected	Cumulative %
0 To 2 Hrs	525,438	22.64%
2 To 12 Hrs	1,795,085	77.36%
12 to 24 Hrs	0	0.00%
>24 Hrs	0	0.00%

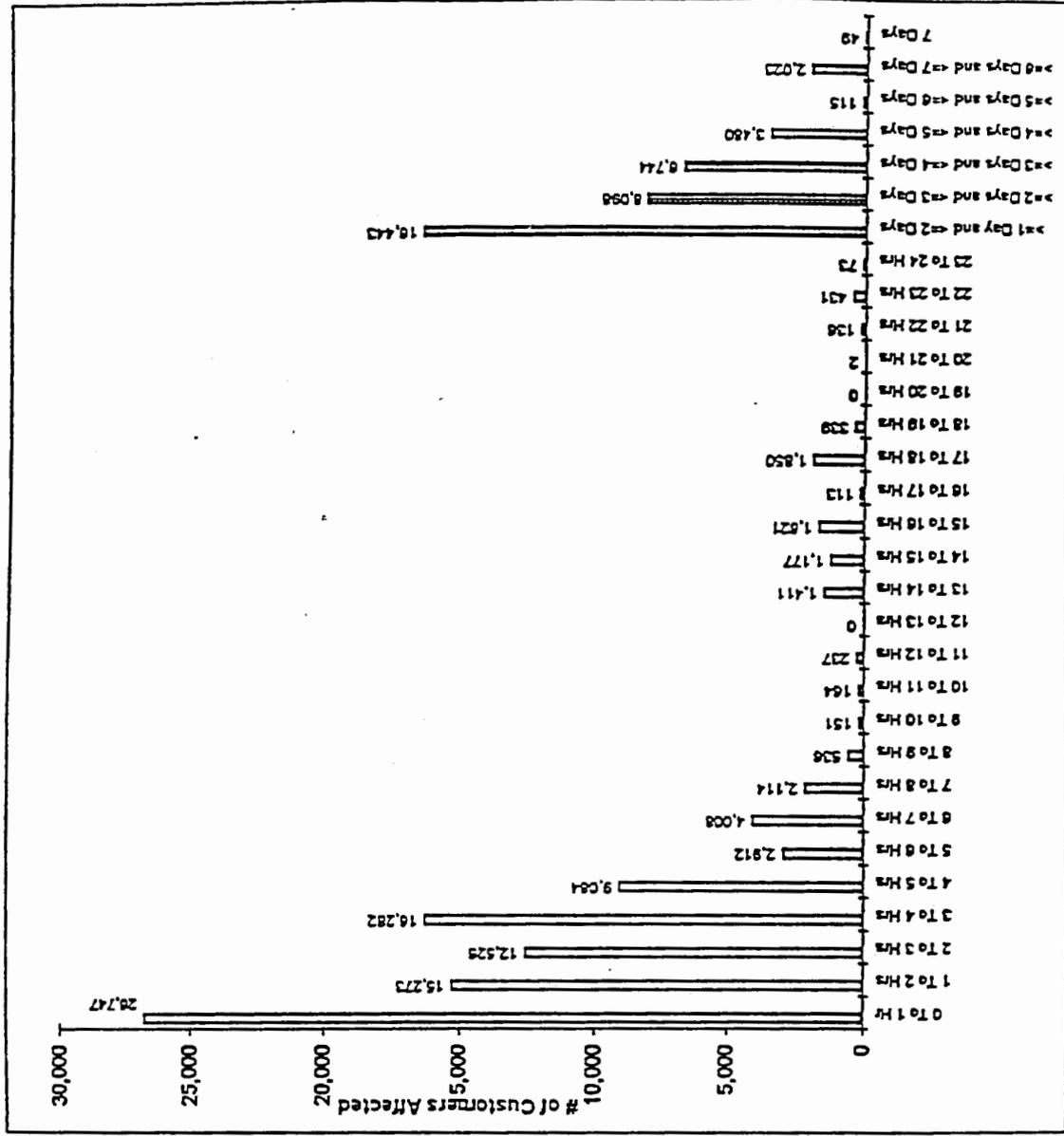
Note: The number of customer outages segmented by hourly restoration periods requires a level of detail not normally maintained by PG&E in its central computerized records. The information shown here is what PG&E has been able to reconstruct from several databases and may have a margin of error of up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

December 21 - 22, 1996

Number and Duration of Outages

12/21/96 - 12/22/96

Outage Duration	Customers Affected	Cumulative %
0 To 1 Hr	26,747	19.94%
1 To 2 Hrs	15,273	31.33%
2 To 3 Hrs	12,526	40.66%
3 To 4 Hrs	16,282	52.80%
4 To 5 Hrs	9,084	59.57%
5 To 6 Hrs	2,912	61.74%
6 To 7 Hrs	4,008	64.73%
7 To 8 Hrs	2,114	66.31%
8 To 9 Hrs	536	66.71%
9 To 10 Hrs	151	66.82%
10 To 11 Hrs	164	66.94%
11 To 12 Hrs	237	67.12%
12 To 13 Hrs	0	67.12%
13 To 14 Hrs	1,411	68.17%
14 To 15 Hrs	1,177	69.05%
15 To 16 Hrs	1,621	70.26%
16 To 17 Hrs	113	70.34%
17 To 18 Hrs	1,850	71.72%
18 To 19 Hrs	339	71.97%
19 To 20 Hrs	0	71.97%
20 To 21 Hrs	2	71.98%
21 To 22 Hrs	136	72.08%
22 To 23 Hrs	431	72.40%
23 To 24 Hrs	73	72.45%
>=1 Day and <=2 Days	16,443	84.71%
>=2 Days and <=3 Days	8,098	90.75%
>=3 Days and <=4 Days	6,744	95.78%
>=4 Days and <=5 Days	3,480	98.37%
>=5 Days and <=6 Days	115	98.46%
>=6 Days and <=7 Days	2,023	99.96%
7 Days	49	100.00%
<b>Total</b>	<b>134,139</b>	



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%.

0 To 2 Hrs 42,020 31.33%

2 To 12 Hrs 48,014 35.79%

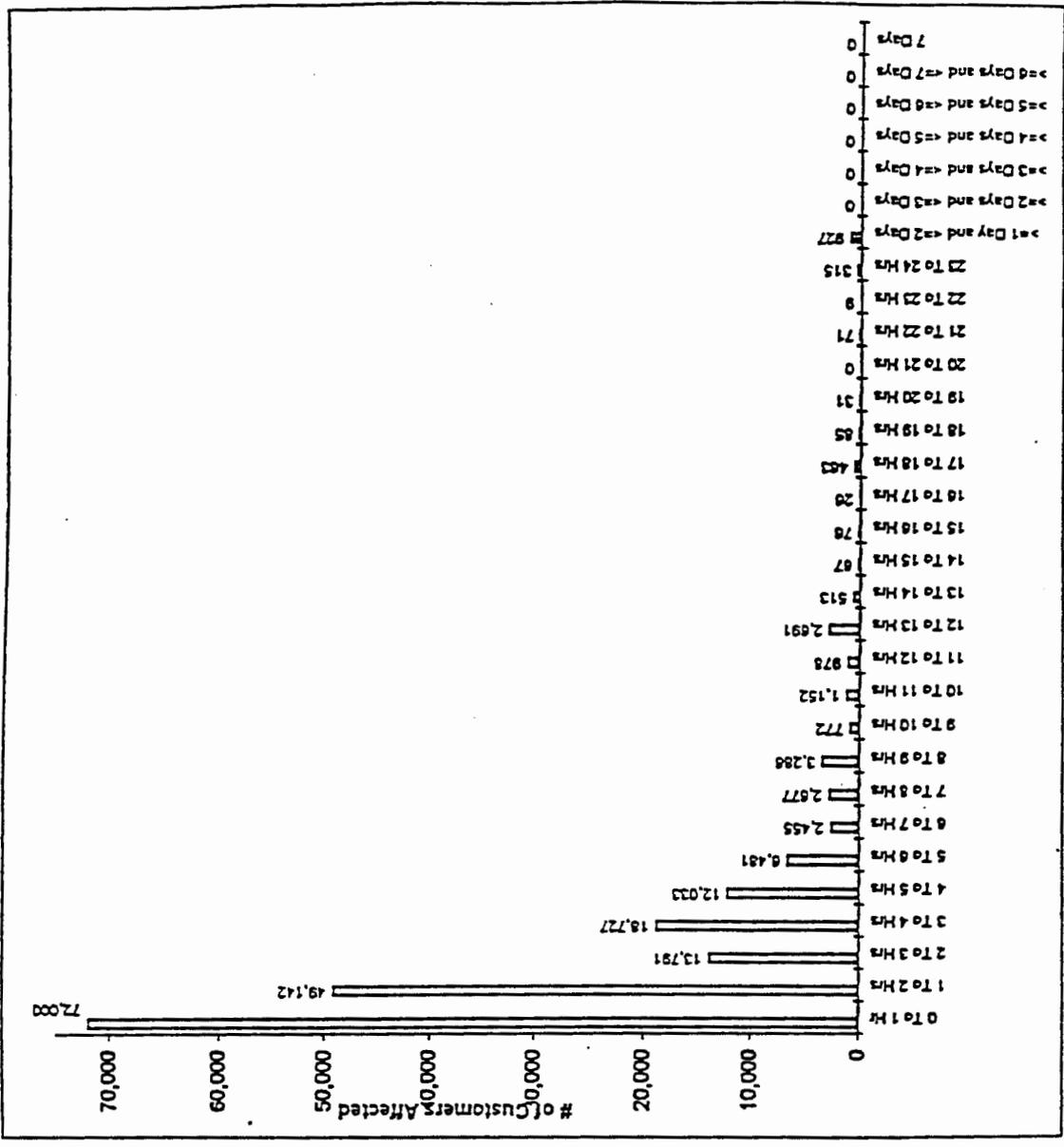
12 to 24 Hrs 7,153 5.33%

>24 Hrs 36,952 27.55%

Attachment 1  
 December 29 - 31, 1996  
 Number and Duration of Outages

12/29/96 - 12/31/96

Outage Duration	Customers Affected	Cumulative %
0 To 1 Hr	72,000	38.14%
1 To 2 Hrs	49,142	64.18%
2 To 3 Hrs	13,791	71.48%
3 To 4 Hrs	18,727	81.40%
4 To 5 Hrs	12,033	87.78%
5 To 6 Hrs	6,481	91.21%
6 To 7 Hrs	2,455	92.51%
7 To 8 Hrs	2,677	93.93%
8 To 9 Hrs	3,286	95.67%
9 To 10 Hrs	772	96.08%
10 To 11 Hrs	1,152	96.69%
11 To 12 Hrs	970	97.21%
12 To 13 Hrs	2,691	98.63%
13 To 14 Hrs	513	98.90%
14 To 15 Hrs	67	98.94%
15 To 16 Hrs	76	98.98%
16 To 17 Hrs	26	98.99%
17 To 18 Hrs	463	99.24%
18 To 19 Hrs	85	99.28%
19 To 20 Hrs	31	99.30%
20 To 21 Hrs	0	99.30%
21 To 22 Hrs	71	99.34%
22 To 23 Hrs	9	99.34%
23 To 24 Hrs	315	99.51%
>=1 Day and <=2 Days	927	100.00%
>=2 Days and <=3 Days	0	100.00%
>=3 Days and <=4 Days	0	100.00%
>=4 Days and <=5 Days	0	100.00%
>=5 Days and <=6 Days	0	100.00%
>=6 Days and <=7 Days	0	100.00%
7 Days	0	100.00%
<b>Total</b>	<b>188,768</b>	



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%.

0 To 2 Hrs	121,142	64.18%
2 To 12 Hrs	62,352	33.03%
12 to 24 Hrs	4,347	2.30%
>24 Hrs	927	0.49%

## 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 1103	22

Total - 273

/0

## 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 2105	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
NORTH VALLEY	SALMON CREEK 1101	378
	CRESCENT MILLS. 2101	207
	ESQUON 1101	15
	ESQUON 1103	1
	GANSNER 1101	128
	GERBER 1102	21
SACRAMENTO	ORLAND STATION B 1103	5
	ARBUCKLE 1102	5
SAN JOSE	RICE 1102	15
	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	

**PG&E Gas and Electric Advice  
Filing List  
General Order 96-A, Section III(G)**

ABAG Power Pool	Douglass & Liddell	Palo Alto Muni Utilities
Accent Energy	Downey, Brand, Seymour & Rohwer	PG&E National Energy Group
Aglet Consumer Alliance	Duke Energy	Pinnacle CNG Company
Agnews Developmental Center	Duke Energy North America	PITCO
Ahmed, Ali	Duncan, Virgil E.	Plurimi, Inc.
Alcantar & Elsesser	Dutcher, John	PPL EnergyPlus, LLC
Anderson Donovan & Poole P.C.	Dynergy Inc.	Praxair, Inc.
Applied Power Technologies	Ellison Schneider	Price, Roy
APS Energy Services Co Inc	Energy Law Group LLP	Product Development Dept
Arter & Hadden LLP	Energy Management Services, LLC	R. M. Hairston & Company
Avista Corp	Enron Energy Services	R. W. Beck & Associates
Barkovich & Yap, Inc.	Exelon Energy Ohio, Inc	Recon Research
BART	Exeter Associates	Regional Cogeneration Service
Bartle Wells Associates	Foster Farms	RMC Lonestar
Blue Ridge Gas	Foster, Wheeler, Martinez	Sacramento Municipal Utility District
Bohannon Development Co	Franciscan Mobilehome	SCD Energy Solutions
BP Energy Company	Future Resources Associates, Inc	Seattle City Light
Braun & Associates	G. A. Krause & Assoc	Sempra
C & H Sugar Co.	Gas Transmission Northwest Corporation	Sempra Energy
CA Bldg Industry Association	GLJ Energy Publications	Sequoia Union HS Dist
CA Cotton Ginners & Growers Assoc.	Goodin, MacBride, Squeri, Schlotz &	SESCO
CA League of Food Processors	Hanna & Morton	Sierra Pacific Power Company
CA Water Service Group	Heeg, Peggy A.	Silicon Valley Power
California Energy Commission	Hitachi Global Storage Technologies	Smurfit Stone Container Corp
California Farm Bureau Federation	Hogan Manufacturing, Inc	Southern California Edison
California Gas Acquisition Svcs	House, Lon	SPURR
California ISO	Imperial Irrigation District	St. Paul Assoc
Calpine	Integrated Utility Consulting Group	Stanford University
Calpine Corp	International Power Technology	Sutherland, Asbill & Brennan
Calpine Gilroy Cogen	Interstate Gas Services, Inc.	Tabors Caramanis & Associates
Cambridge Energy Research Assoc	IUCG/Sunshine Design LLC	Tansev and Associates
Cameron McKenna	J. R. Wood, Inc	Tecogen, Inc
Cardinal Cogen	JTM, Inc	TFS Energy
Cellnet Data Systems	Kaiser Cement Corp	Transcanada
Chevron Texaco	Luce, Forward, Hamilton & Scripps	Turlock Irrigation District
Chevron USA Production Co.	Manatt, Phelps & Phillips	U S Borax, Inc
Childress, David A.	Marcus, David	United Cogen Inc.
City of Glendale	Masonite Corporation	URM Groups
City of Healdsburg	Matthew V. Brady & Associates	Utility Cost Management LLC
City of Palo Alto	Maynor, Donald H.	Utility Resource Network
City of Redding	McKenzie & Assoc	Wellhead Electric Company
CLECA Law Office	McKenzie & Associates	Western Hub Properties, LLC
Commerce Energy	Meek, Daniel W.	White & Case
Constellation New Energy	Mirant California, LLC	WMA
CPUC	Modesto Irrigation Dist	
Cross Border Inc	Morrison & Foerster	
Crossborder Inc	Morse Richard Weisenmiller & Assoc.	
CSC Energy Services	Navigant Consulting	
Davis, Wright, Tremaine LLP	New United Motor Mfg, Inc	
Defense Fuel Support Center	Norris & Wong Associates	
Department of the Army	North Coast Solar Resources	
Department of Water & Power City	Northern California Power Agency	
DGS Natural Gas Services	Office of Energy Assessments	