

March 3, 2008

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

Subject: Reporting Standards: System SAIDI, SAIFI, and MAIFI Report  
Decision 96-09-045

Dear Mr. Clanon:

Pursuant to Appendix A of D.96-09-045, attached is Southern California Edison's (SCE) annual report on system reliability. The report summarizes historical data for the System Average Interruption Duration Index (SAIDI), System Average Interruption Frequency Index (SAIFI), and Momentary Average Interruption Frequency Index (MAIFI).

As stated in the March 1, 2007 cover letter for SCE's 2006 annual report on system reliability, SCE has implemented a new outage data recording system to allow more precise calculations of reliability metrics. The new system records information, such as duration and number of affected customers, for each circuit restoration step. This information obviates the need to employ assumptions, such as the "92%/8%" method, we had used since the issuance of D.96-09-045. This modification is part of the settlement in the 2003 SCE GRC (D.04-07-022) that became the Employee Safety and Distribution Reliability Performance Incentive Mechanism (SRPIM).

SCE implemented this new system, called the Outage Database and Reliability Metrics (ODRM), in two phases:

- A. Beginning 2005, for complete circuit interruptions and a limited number of partial circuit interruptions, the times and customers affected at the start of the outage and every subsequent restoration step were recorded, and
- B. Beginning 2006, all distribution outages including all partial circuit interruptions were recorded.

Attachment 1 provides calculations of SCE's reliability over the past ten years with a) all interruptions included and b) major events excluded, as required by D.96-09-045. For years 1998-2004, data in Attachment 1 were derived using traditional methods (92/8) and assumptions as described above. For 2005, data were derived consistent with (A) above. For 2006 and 2007, data were derived consistent with (B) above.

Attachment 2 provides the number of customers experiencing more than twelve sustained interruptions after exclusion of major events. Late in the process of developing this attachment

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we discovered that this information was not automatically extractable from the database. Because efforts to work around this were unsuccessful, a lengthy manual review of circuit layouts and restoration steps will be necessary to provide Attachment 2 for 2007 and a corrected Attachment 2 for 2006. This effort may require as long as three weeks. SCE will submit a supplemental filing containing Attachment 2 for years 2006 and 2007 no later than March 24.

Attachment 3 identifies the 10 largest outage events (in terms of SAIDI) each year 1998-2007, whether any of them were excluded from the reported indices, the total number of customers affected, the longest customer interruption, and the number of employees used to restore service. Attachment 4 identifies, for each excludable event listed, the number of customers without service by hourly interval. Attachment 5 identifies, for each excludable outage event, the number of customers without service by outage duration.

In 2007, there was only one day which was considered a major event day. On October 21, 2007, wildfires throughout Southern California resulted in 628,093 of our customers being affected by interruptions. Because this number represents more than 10% of our customers, October 21 is considered excludable per page 2 of Appendix A, D.96-09-045.

Should you have any questions regarding this matter, please contact me or Alfred Escamilla at (626) 302-1941.

Sincerely,



Robert Ramirez  
Manager, Regulatory Compliance

Attachments

cc: Mr. Sean Gallagher, Energy Division  
Mr. Richard Clark, Consumer Protection & Safety Division  
Mr. Brian Schumacher, Energy Division

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bcc: George Perrualt  
John Hughes  
Janine Watkins-Ivie

Southern California Edison  
Annual System Reliability Report - 2007  
March 3, 2008  
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Attachment	Tab Name	Description
1	Historical System Indices	SAIDI, SAIFI, and MAIFI Annual System Statistics with and without major events using DTOM (1998-2005) and ODRM (2005-2007)
2	List > 12 Sustained	Circuit ID and number of customer experiencing more than one 5 (or more) minute outage (i.e., sustained) per month on a rolling annual average basis after exclusion of major events (1998-2007)
3	Top 10 SAIDI Each Year	Top 10 annual outage events, the number of customers affected, and number of people used to restore service (1998-2007)
4	No Service by Hourly Interval	For each significant event, number of customers without service by hourly interval (1998-2007)
5	No Service by Duration	For significant outage events, number of customers without service by outage duration (1998-2007)

**Southern California Edison**  
**Historical System Reliability Data**  
**1998 - 2004 DTOM**  
**2005 DTOM & ODRM**  
**2006 - 2007 ODRM**

YEAR	All Interruptions Included <sup>1</sup>			Major Events Excluded <sup>2</sup>		
	SAIDI <sup>3</sup>	SAIFI	MAIFI	SAIDI <sup>3</sup>	SAIFI	MAIFI
1998	78.55	1.30	1.37	78.55	1.30	1.37
1999	49.25	1.06	1.18	49.25	1.06	1.18
2000	47.09	1.14	1.18	47.09	1.14	1.18
2001	51.69	1.05	1.13	51.69	1.05	1.13
2002	52.75	1.23	1.11	50.44	1.11	1.10
2003 (w/o sub)	87.23	1.39	1.37	63.90	1.19	1.17
2003 (w/ sub)	79.20	1.35	1.37	57.78	1.15	1.18
2004 (w/o sub)	75.21	1.34	1.19	67.11	1.26	1.12
2004 (w/ sub)	68.39	1.30	1.19	62.83	1.24	1.13
2005 (w/o sub)	91.64	1.52	1.44	74.25	1.27	1.21
2005 (w/ sub)	91.45	1.52	1.44	74.16	1.27	1.21
2005 (ODRM) <sup>4</sup>	106.41	1.02	2.00	82.10	0.82	1.67
2006 ODRM	142.27	1.08	1.81	116.34	1.00	1.64
2007 ODRM	151.60	1.15	1.68	141.95	1.11	1.60

All calculations utilize a definition of "sustained" interruption as described in D.96-09-045, which is an interruption lasting 5 minutes or longer.

<sup>1</sup> This excludes ISO-directed firm load curtailment, Protective Outage Plan (POP) outages, Remedial Action Scheme (RAS) outages.

<sup>2</sup> Major Event Exclusions are defined in D.96-09-045 under Appendix A Section I - Item 4c. Exclusions taken in 2007 : 10/21/2007 Wildfires

<sup>3</sup> Metrics for 1998 - 2005 have been adjusted upward to reflect the variance introduced by Southern California Edison's former convention of declaring All Load Up (ALU) when power had been restored up to the last residential transformer. An estimate was a

<sup>4</sup> Does not include Area Outages. No Bark Beetle substitution.

"Sub" refers to substitution of historical average metrics in circuits affected by the Bark Beetle Infestation.

**Southern California Edison  
Historical System Reliability Data**

**1997 - 2006**

**Customers experiencing > 12 sustained outages**

**Attachment 2**

Year	Circuit	Circuit Name	Number of customers experiencing > 12 sustained outages
1997	1640	BIG PINES	214
	9320	JORDAN	698
	11270	MARSH	849
	11448	MCCLENNY	57
	12190	MORITZ	622
	14349	POSO PARK	49
	17063	STONEMAN	80
	17190	SUGARLOAF	114
1998	3890	CONCEPCION	126
	4632	DAMON	22
	14652	RAMAC	55
	16600	SODA SPRINGS	53
	17663	TENNECO	307
	19150	WELLS	123
1999	3170	CATTLE	296
	15475	ROWCO	849
2000	5085	DINKEY CREEK	37
	8702	HOSSACK	100
	10945	MAHOGANY	6
	12910	NOVAC	266
	13959	PERIMETER	7
	17672	TERMINUS	137
2001	390	ALPINE	136
	1626	BIGFOOT	47
	2664	CALCADIA	5
	3890	CONCEPCION	84
	5018	DEVINE	8
	5146	DOGWOOD	2,116
	12722	NIPTON	27
	15680	SALT CREEK	118
	19134	WEINING	64
2002	1630	BIG ROCK	469
	4635	DANBY	57
	9060	IVERSON	124
	14814	REDSTONE	1,246
2003	2290	BROOKINGS*	1
	2370	BUDD	287
	2881	CAPANERO	292
	3240	CEDAR GLEN*	440
	5850	ELSTER	132
	8410	HIGH SCHOOL*	341
	8670	HOOK CREEK*	550
	9320	JORDAN	665
	9549	KELLPEAK*	10
	11448	MCCLENNY	55
	12190	MORITZ*	1,345
	12860	NORTH SHORE*	528
	14349	POSO PARK	49
	14690	RANGER*	730
	15922	SAUNDERS*	733
	16049	SEALS	93
	16839	SQUINT*	777
	17190	SUGARLOAF	131
	17997	TORONTO*	53

Year	Circuit	Circuit Name	Number of customers experiencing > 12 sustained outages
2004	390	ALPINE*	302
	1630	BIG ROCK	534
	3387	CHAWA	894
	5085	DINKEY CREEK	85
	6432	FINGAL	189
	8670	HOOK CREEK*	297
	8930	INTAKE	13
	9060	IVERSON	125
	9194	JEEP*	1,079
	9205	JENKS LAKE*	121
	9290	JOHNSONDALE	119
	11760	METTLER	340
	12136	MONTREAL*	630
	12190	MORITZ*	1,447
	12840	NORTH BAY*	226
	12860	NORTH SHORE*	245
	13959	PERIMETER	1,090
	14705	RANIER	7
	15090	RIM*	1,328
	15275	ROBIN	45
	15415	ROSEBUD	734
	15986	SCHMIDT	470
	17915	TITAN	79
	17985	TOPOC	92
	17997	TORONTO*	690
	19694	ANGELES	1,088
2005	2664	CALCADIA	4
	5090	DISCOVERY	32
	7490	GRANITE	267
	9777	KINSEY	70
	10216	LAVA	55
	10670	LOMBARDY	94
	12722	NIPTON	33
	13776	PAT	1,151
	15282	ROBINSON CREEK	199
	15415	ROSEBUD	581
	16308	SHEEPHOLE	3
	17731	THACHER	457
	19136	WEISS	177
2006			
2007			

\* bark beetle circuit

**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

**Attachment 3**

2007

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Wild Fires	10/22/2007	18.310				N
2	Summer heat storm	9/3/2007	10.336				N
3	Wild Fires	10/21/2007	9.649	628,093	6,632	1,258	Y
4	Summer heat storm	9/2/2007	6.162				N
5	Rain/Wind Storm	3/27/2007	5.711				N
6	Summer heat storm	9/1/2007	3.398				N
7	Summer heat storm	8/31/2007	3.285				N
8	Wind Storm	12/25/2007	2.494				N
9	Summer heat storm	9/4/2007	2.334				N
10	Wind Storm	4/12/2007	2.215				N

**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

**Attachment 3**

2006

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Summer heat storm	7/22/2006	15.441	527,572	6,748	1,616	Y
2	Winter rain storm	1/2/2006	10.478	720,251	4,532	684	Y
3	Summer heat storm	7/23/2006	4.866	170,590			N
4	Winter rain storm	12/27/2006	4.055	285,211			N
5	Winter rain storm	12/28/2006	3.084	155,839			N
6	Summer heat storm	7/24/2006	2.821	98,614			N
7	Summer heat storm	7/15/2006	2.492	159,258			N
8	Summer heat storm	7/20/2006	2.305	208,040			N
9	Summer heat storm	7/21/2006	2.085	238,707			N
10	Winter rain storm	1/22/2006	1.966	157,613			N



**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

**Attachment 3**

2005

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Winter Rain Storm	01/01/2005 - 01/11/2005	7.786	954,312	23,269	1,005	Y
2	Winter Rain Storm	02/16/2005 - 02/23/2005	5.713	696,946	8,233	641	Y
3	Lightning Storm	9/20/2005	3.887	624,737	2,910	391	Y
4	Lightning Storm	10/17/2005	3.693				N
5	Brush Fire	9/3/2005	2.121				N
6	Wind Storm	8/6/2005	1.683				N
7	Lightning Storm	7/24/2005	1.500				N
8	Lightning Storm	5/6/2005	1.235				N
9	Wind Storm	11/26/2005	1.089				N
10	Rain/Wind Storm	12/31/2005	1.061				N

**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

**Attachment 3**

2004

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Winter Rain Storm	12/28/2004 - 12/31/2004	8.100	708,044	38,065	1,005	Y
2	Wind Storm	11/21/2004	2.571				N
3	Wind Storm	10/27/2004	2.389				N
4	Rain Storm	10/17/2004	1.999				N
5	Moorpark A-Bank	9/11/2004	1.622				N
6	Rain Storm	10/20/2004	1.610				N
7	Lightning Storm	8/12/2004	1.574				N
8	Rain Storm	10/19/2004	0.989				N
9	Wind Storm	11/22/2004	0.904				N
10	Lightning Storm	8/13/2004	0.883				N

**Southern California Edison  
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2003

Attachment 3

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Santa Ana Wind Storm	01/06/2003 - 01/08/2003	17.228	1,236,698	7,731	2,551	Y
2	Southern California Wild Fires	10/24/2003 - 10/26/2003	6.105	601,653	12,808	1,919	Y
3	Rain Storm & Mud Slides	12/25/2003	3.468				N
4	Lightning Storm	11/12/2003	3.024				N
5	Santa Ana Wind Storm	01/05/2003	2.438				N
6	Rain Storm	02/25/2003	2.303				N
7	Rain Storm	10/31/2003	1.127				N
8	Wind Storm	03/17/2003	0.946				N
9	Wind Storm	02/12/2003	0.796				N
10	Lightning Storm	08/20/2003	0.770				N

**Southern California Edison  
Top 10 Annual Events  
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2002

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Rain/Wind Storm	12/16/2002	2.780				N
2	Rain/Wind Storm	11/8/2002	2.416				N
3	Mira Loma RAS / Louisiana Fire	06/26/2002 - 06/28/2002	2.307	600,607	3,996	50	Y
4	Rain/Wind Storm	11/9/2002	1.043				N
5	Rain Storm	11/25/2002	1.015				N
6	Wind Storm	2/9/2002	0.862				N
7	Car Hit Pole	10/4/2002	0.847				N
8	Rain/Wind Storm	11/7/2002	0.712				N
9	Heat Storm	9/1/2002	0.662				N
10	Rain Storm	2/17/2002	0.643				N

**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

**Attachment 3**

2001

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Rain/Snow/Wind Storm	2/13/2001	3.107				N
2	Wind Storm	1/11/2001	1.729				N
3	Rain/Wind Storm	11/24/2001	1.671				N
4	Rain/Wind Storm	11/12/2001	1.180				N
5	Wind Storm	1/10/2001	0.921				N
6	Wind Storm	9/30/2001	0.598				N
7	Rain Storm	10/30/2001	0.591				N
8	Lightning Storm	7/6/2001	0.567				N
9	Structure Fire	6/21/2001	0.564				N
10	Rain/Snow/Wind Storm	2/12/2001	0.554				N

**Southern California Edison  
Top 10 Annual Events  
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2000

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Equipment Failure	10/26/2000	1.571				N
2	Rain/Wind Storm	4/18/2000	1.285				N
3	Rain/Wind Storm	2/20/2000	0.944				N
4	Rain/Wind Storm	2/21/2000	0.820				N
5	Car Hit Transmission Pole	4/3/2000	0.804				N
6	Wind Storm	3/21/2000	0.775				N
7	Rain/Wind Storm	3/5/2000	0.638				N
8	Rain Storm	9/22/2000	0.633				N
9	Rain/Wind Storm	4/17/2000	0.575				N
10	Equipment Failure	5/13/2000	0.551				N

**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

1999

Attachment 3

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	Hector Mines Earthquake	10/16/1999	3.314				N
2	Rain/Wind Storm	1/25/1999	2.101				N
3	Rain Storm	1/18/1999	1.696				N
4	Rain/Wind Storm	4/3/1999	1.092				N
5	Rain Storm	4/6/1999	0.994				N
6	Laguna Bell A-Bank	7/7/1999	0.737				N
7	Rain/Wind Storm	2/9/1999	0.675				N
8	La Cienega A-Bank	1/7/1999	0.663				N
9	Wind Storm	2/11/1999	0.654				N
10	Heat/Lightning Storm	7/11/1999	0.621				N

**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

**Attachment 3**

1998

Rank	Description	Date	SAIDI	Number of customers affected	Longest customer interruption (min)	Number of people used to restore service	CPUC major event?
1	La Nina Heat Storm	08/29/1998 - 09/04/1998	9.379				N
2	El Nino Rain Storm	02/03/1998 - 02/05/1998	8.938				N
3	Wind Storm	12/09/1998	5.519				N
4	Wind Storm	12/06/1998	2.625				N
5	Rain Storm	02/23/1998	1.650				N
6	Rain Storm	03/24/1998	1.183				N
7	Rain Storm	11/08/1998	1.119				N
8	El Nino Rain Storm	02/06/1998	1.056				N
9	El Nino Rain Storm	02/02/1998	0.960				N
10	Rain Storm	02/24/1998	0.897				N



**Southern California Edison  
Top 10 Annual Events  
1998 - 2007**

# Southern California Edison

## Significant Outage Events

Number of customers w/o service at hourly interval

### Attachment 4

THIS TABLE CONTAINS ROLLING DAY DATA.

Time	Mira Loma RAS	Mira Loma RAS	Mira Loma RAS	Mira Loma RAS	Mira Loma RAS	Santa Ana Wind Storm	Santa Ana Wind Storm	Santa Ana Wind Storm	Santa Ana Wind Storm	Description of event
	6/26/2002	6/27/2002	6/28/2002	1/6/2003	1/7/2003	1/8/2003				
0	1,973	459	119	150,974	24,149	5,099				
1	1,995	459	808	177,276	26,720	9,867				
2	22	459	870	189,656	35,678	7,212				
3	-	9,716	1,364	169,700	23,267	5,691				
4	-	459	9,866	127,917	41,711	4,315				
5	-	4,571	285	112,215	48,693	4,155				
6	469	2,136	223	99,427	35,370	4,102				
7	-	589	3,485	84,646	31,423	4,137				
8	131	589	4,033	86,946	15,173	6,844				
9	-	501	352	58,992	13,628	7,833				
10	412	522	1,533	63,936	26,491	9,774				
11	114	1,302	599	60,261	35,427	8,491				
12	1,053	205	186	69,743	30,025	11,349				
13	622	114	124	77,406	24,075	11,607				
14	622	29	29	61,304	10,701	24,521				
15	-	101	29	45,025	9,033	6,537				
16	-	1,176	29	25,292	8,628	4,368				
17	-	1,918	4,095	25,852	11,222	4,000				
18	540,502	4,243	2,704	25,773	7,709	3,030				
19	16,349	119	227	29,423	12,265	2,930				
20	4,058	119	1,068	51,181	14,995	2,091				
21	1,690	119	227	27,891	12,993	2,026				
22	459	119	227	20,583	10,023	2,313				
23	2,827	119	227	33,400	11,230	1,540				

# Southern California Edison

## Significant Outage Events

Number of customers w/o service at hourly interval

THIS TABLE CONTAINS ROLLING DAY DATA.

Attachment 4

Time	Southern California Wild Fires	Southern California Wild Fires	Southern California Wild Fires	Winter Rain Storm	Winter Rain Storm	Winter Rain Storm	Winter Rain Storm	Winter Rain Storm	Winter Rain Storm	Description of event
	10/24/2003	10/25/2003	10/26/2003	12/28/2004	12/29/2004	12/30/2004	12/31/2004			
0	-	99	6,168	12,202	84,434	3,841	1,127			
1	81	4,491	60,988	7,187	71,180	4,368	1,906			
2	1,681	47	7,531	24,357	60,971	3,324	1,444			
3	110	47	193,783	40,904	47,181	3,834	2,590			
4	81	1,847	68,576	21,739	30,328	3,737	3,755			
5	602	14,654	45,513	15,563	24,823	3,249	3,888			
6	6,403	41	29,836	11,448	19,659	1,972	9,143			
7	521	3,546	7,319	30,504	18,040	1,219	7,295			
8	1,134	15,078	9,418	80,953	15,674	4,717	12,424			
9	637	1,317	5,937	30,040	13,206	1,640	19,566			
10	120,708	4,454	8,839	42,290	15,031	1,745	7,628			
11	653	3,256	7,889	30,355	11,669	5,737	8,981			
12	574	2,912	6,350	16,991	14,253	4,276	16,928			
13	15,893	2,295	28,195	17,970	15,084	5,481	10,208			
14	600	2,991	16,756	13,537	11,345	4,109	6,843			
15	590	30,036	14,368	5,871	7,682	6,491	11,140			
16	575	7,055	11,336	11,953	13,496	807	8,410			
17	575	9,159	10,253	92,301	5,765	629	2,556			
18	1,171	1,279	8,013	7,091	5,112	2,592	2,034			
19	616	2,759	5,758	12,949	7,681	2,904	2,536			
20	586	3,800	5,992	10,576	5,121	705	2,522			
21	727	3,087	5,619	7,987	4,092	1,738	4,294			
22	3,652	4,829	5,754	6,779	3,280	2,262	4,122			
23	1,606	4,722	4,065	17,630	6,271	4,535	4,375			

# Southern California Edison

## Significant Outage Events

Number of customers w/o service at hourly interval

THIS TABLE CONTAINS ROLLING DAY DATA.

Attachment 4

Time	1/1/2005	1/2/2005	1/3/2005	1/4/2005	1/5/2005	1/6/2005	1/7/2005	1/8/2005	Description of event
0	2,344	118	8,955	2,091	89	327	1,136	1,172	
1	2,921	398	1,652	2,270	5,160	281	488	24	
2	34	398	-	3,830	82	281	3,387	73	
3	358	420	5,475	600	82	281	555	18,858	
4	1,600	2,571	7	3,827	82	281	960	190	
5	4,906	303	3,637	807	66	275	3,054	379	
6	7,949	303	1,997	627	2,669	275	3,383	589	
7	2,774	1,665	7,844	3,186	3,824	2,611	2,136	26	
8	4,609	223	16,398	2,784	179	729	5,964	1,758	
9	540	223	5,447	33,282	166	981	3,644	2,049	
10	2,162	5,192	479	35,214	7,332	2,008	18,416	1,749	
11	4,074	6,462	29,734	6,727	2,209	1,911	14,005	1,156	
12	1,259	1,261	7,823	2,813	1,194	2,913	18,630	2,928	
13	508	1,860	4,983	1,239	1,192	675	12,035	10,653	
14	832	2,845	1,139	5,954	6,876	454	12,229	8,270	
15	508	140	5,396	1,593	2,886	620	5,695	5,987	
16	2,442	140	4,085	533	361	1,813	7,314	12,102	
17	172	140	825	116	385	1,783	6,025	7,942	
18	172	141	8,390	116	444	776	6,402	6,594	
19	42	141	13,318	2,102	278	1,561	4,794	3,573	
20	992	65	1,012	116	312	1,617	2,449	5,256	
21	1,068	64	5,787	1,011	2,716	304	5,710	7,556	
22	118	64	619	331	2,923	304	4,910	3,131	
23	118	64	619	89	336	1,074	1,313	10,803	

# Southern California Edison

## Significant Outage Events

Number of customers w/o service at hourly interval

THIS TABLE CONTAINS ROLLING DAY DATA.

Attachment 4

Time	1/9/2005	1/10/2005	1/11/2005	2/16/2005	2/17/2005	2/18/2005	2/19/2005	2/20/2005	Description of event
0	4,634	9,150	14,206	849	-	2,485	10,466	6,564	
1	5,353	12,379	17,009	125	229	1,495	17,924	3,539	
2	12,050	7,614	23,761	9	17	1,441	13,917	7,293	
3	5,806	6,362	11,891	3,916	837	1,441	20,607	1,694	
4	2,602	8,523	11,603	10	1,623	1,441	52,009	2,959	
5	14,378	7,153	17,849	10	323	4,579	48,850	2,831	
6	9,300	10,555	21,763	397	574	908	33,786	2,148	
7	14,493	12,129	19,731	397	622	2,737	27,551	5,496	
8	12,429	21,583	12,136	178	371	2,523	28,434	3,496	
9	24,223	25,889	11,853	191	706	502	9,986	1,428	
10	20,625	11,663	13,268	26	10,010	470	26,295	2,064	
11	15,716	14,795	14,945	2,782	9,127	4,659	21,866	2,673	
12	15,434	14,101	14,518	1,746	715	133	20,560	4,118	
13	14,768	25,907	16,991	1,092	1,406	133	12,826	1,424	
14	9,396	18,741	9,700	822	8,316	4,986	10,386	928	
15	12,776	17,297	8,543	227	946	6,229	8,937	646	
16	14,157	15,005	8,302	5,306	782	141	10,151	2,152	
17	18,536	11,146	12,089	2,379	4,792	141	7,290	3,921	
18	18,384	8,124	10,778	5,322	4,205	141	9,393	4,268	
19	10,382	15,219	1,684	4,002	4,969	1,123	8,156	3,741	
20	8,367	13,053	19,597	933	1,357	2,100	4,481	1,904	
21	16,640	11,746	11,712	933	1,357	1,246	5,405	13,372	
22	11,723	17,482	1,331	288	2,455	213	5,280	6,753	
23	10,832	13,659	971	-	2,401	21,056	7,146	17,008	

# Southern California Edison

## Significant Outage Events

Number of customers w/o service at hourly interval

THIS TABLE CONTAINS ROLLING DAY DATA.

Attachment 4

Time	2/21/2005	2/22/2005	2/23/2005	9/20/2005	1/2/2006	7/22/2006	10/21/2007	Description of event
0	17,643	1,611	23,794	35,324	934	8,131	8,346	
1	13,966	1,398	23,651	73,173	2,485	6,528	13,208	
2	16,136	7,833	5,401	117,966	979	7,269	13,475	
3	12,916	5,314	4,219	94,719	3,901	7,257	42,878	
4	6,111	167	9,519	70,986	16,033	6,504	33,204	
5	10,876	3,305	5,111	59,321	23,872	4,299	54,764	
6	16,259	342	26,381	36,987	14,740	4,956	20,957	
7	9,266	339	9,743	44,392	35,171	4,806	45,298	
8	13,975	619	8,601	38,176	77,681	4,932	59,570	
9	5,374	4,169	7,510	59,889	191,661	2,263	53,648	
10	7,730	3,222	8,704	42,516	162,780	2,674	71,391	
11	10,107	6,973	11,041	62,892	169,871	3,161	67,827	
12	6,323	2,308	6,804	26,698	115,365	7,451	51,300	
13	12,967	3,533	5,970	21,128	87,849	19,300	43,260	
14	10,061	7,288	1,898	23,744	83,069	53,902	60,972	
15	3,940	2,330	1,347	16,056	79,866	105,045	49,155	
16	10,584	1,275	2,009	14,467	76,523	129,964	41,000	
17	10,439	7,048	2,811	10,871	57,515	134,398	51,141	
18	2,793	4,279	2,117	13,237	47,499	89,342	42,154	
19	4,762	4,235	1,142	9,521	36,870	145,110	53,578	
20	5,291	1,504	722	6,935	36,921	84,274	54,253	
21	7,568	2,594	620	6,730	29,519	76,624	45,699	
22	2,452	984	1,956	4,476	28,745	66,383	85,099	
23	5,496	20,739	2,630	4,349	21,198	53,678	38,793	

# Southern California Edison

## Significant Outage Events

Number of customers w/o service by outage duration

### Attachment 5

Outage Duration	Mira Loma RAS	Santa Ana Wind Storm	Southern California Wild Fires	Winter Rain Storm	Winter Rain Storm	Winter Rain Storm	Winter Rain Storm	Lightning Storm	Winter Rain Storm	Summer Heat Storm	Wild Fires	Description of event
	06/26/2002 - 06/28/2002	01/06/2003 - 01/08/2003	10/24/2003 - 10/26/2003	12/28/2004 - 12/31/2004	01/01/2005 - 01/11/2005	02/16/2005 - 02/23/2005	9/20/2005	1/2/2006	7/22/2006	10/21/2007		
0 to 1 hour	583,670	788,468	491,078	409,325	561,834	377,235	440,023	572,274	422,684	522,063		
1 to 5 hours	7,126	172,308	58,450	151,123	203,015	153,424	64,816	101,467	55,577	67,433		
5 to 10 hours	5,835	59,570	11,547	60,160	101,172	70,856	33,672	25,500	15,986	21,017		
10 to 15 hours	1,203	57,778	4,883	38,830	45,767	54,924	28,181	10,751	7,881	4,637		
15 to 20 hours	2,744	55,373	1,996	16,205	17,431	30,162	17,358	3,862	4,703	4,349		
20 to 24 hours	-	15,325	4,081	10,963	7,955	6,708	11,119	898	3,591	1,585		
1 to 2 days	-	56,503	11,169	17,805	12,906	3,634	29,487	5,004	12,458	5,157		
2 to 3 days	29	24,949	1,734	1,062	13	-	81	459	4,036	1,574		
3 to 4 days	-	5,524	5,040	-	2,569	-	-	36	646	133		
4 to 5 days	-	-	7,169	2,564	504	-	-	-	10	145		
5 to 6 days	-	900	3,478	-	-	3	-	-	-	-		
6 to 7 days	-	-	25	-	-	-	-	-	-	-		
> 7 days	-	-	1,003	7	1,146	-	-	-	-	-		
Total	600,607	1,236,698	601,653	708,044	954,312	696,946	624,737	720,251	527,572	628,093		