

Table B.1. Major Disturbances and Unusual Occurrences, Year-to-Date through December 2007

Date	NERC Region	Time	Area Affected	Type of Disturbance	Loss (megawatts)	Number of Customers Affected	Restoration
January							
1/5/2007	PR	10:44 a.m.	Island of Puerto Rico	Voltage Reduction	0	0	11:13 a.m. January 05
1/13/2007	MRO	5:00 a.m.	Missouri and Illinois	Ice Storm	N/A	225,000	12:00 p.m. January 19
1/13/2007	RFC	7:30 a.m.	Eastern and Lower Michigan	Ice Storm	500	129,607	4:00 p.m. January 19
1/16/2007	WECC	2:00 a.m.	Snohomish County, Washington	Major Windstorm	260	110,433	12:00 a.m. January 17
February							
2/13/2007	RFC	2:00 p.m.	Indiana and Southwest Ohio	Ice/Wind Storm	250	367,500	12:00 a.m. February 16
2/13/2007	RFC	5:00 p.m.	Central Maryland	Winter Storm	400	155,183	5:30 a.m. February 17
2/24/2007	MRO	4:00 p.m.	NE quarter of State of Iowa and Rock Island, Illinois	Ice Storm	210	75,000	12:57 a.m. March 04
2/24/2007	MRO	6:00 p.m.	Central Iowa and Cedar Rapids areas	Ice Storm	400	140,000	11:47 p.m. February 24
2/24/2007	RFC	7:23 p.m.	Cedar Rapids, Iowa	Ice Storm	750	215,000	12:47 a.m. February 25
2/28/2007	WECC	12:45 a.m.	Northern California	Winter Storm	110	671,189	8:45 p.m. March 02
March							
3/1/2007	SERC	9:40 p.m.	Parts of Alabama, Mississippi, Georgia, Florida	Major Storm	95	25,445	11:30 p.m. March 02
3/31/2007	ERCOT	7:30 a.m.	Houston, Texas	Severe Thunderstorms	179	67,000	7:00 p.m. March 31
April							
4/5/2007	NPCC	9:20 p.m.	Southern and Coastal Maine	Heavy Snow Storm	-	117,142	1:10 p.m. April 06
4/12/2007	WECC	12:32 a.m.	City of Los Angeles, California	High Winds	200	158,977	9:02 p.m. April 12
4/12/2007	WECC	9:09 a.m.	San Francisco Bay Area, California	Trip of a Unit	130	-	11:23 a.m. April 12
4/14/2007	NPCC	9:00 a.m.	Massachusetts, New Hampshire, Rhode Island	High Winds	65-80	70,000	11:00 a.m. April 14
4/16/2007	NPCC	8:00 a.m.	New Hampshire	Severe Thunderstorms	-	102,568	7:00 p.m. April 16
4/16/2007	NPCC	10:14 a.m.	Southern and Coastal Maine	Heavy Snow Storm	-	127,545	10:18 p.m. April 18
4/16/2007	SERC	11:00 a.m.	North and South Carolina	High Winds	-	33,000	7:00 p.m. April 16
4/16/2007	RFC	2:00 p.m.	Central Maryland - Baltimore City and surrounding Counties	Severe Thunderstorms	160	138,000	5:00 p.m. April 18
4/16/2007	SERC	2:04 p.m.	North, East and Central Virginia/Parts of Northeast North Carolina	High Winds	90	242,000	7:03 p.m. April 16
May							

5/2/2007	ERCOT	1:30 p.m.	North Texas, Dallas Fort Worth Metroplex and Surrounding Counties, South to Waco and North to Red River	Severe Storms	-	300,000	8:00 p.m. May 03
5/10/2007	WECC	9:57 a.m.	San Francisco Bay Area, California	Unit Tripped	150	-	1:47 p.m. May 10
5/14/2007	WECC	11:15 a.m.	San Francisco Bay Area, California	Unit Tripped	150	-	1:50 p.m. May 14
5/15/2007	RFC	3:00 p.m.	Southeastern Michigan	Severe Thunderstorms	500	66,000	7:00 a.m. May 17
5/16/2007	NPCC	6:00 p.m.	All of Connecticut	Severe Storm	-	67,000	5:00 a.m. May 19
5/21/2007	WECC	1:48 p.m.	San Francisco Bay Area, California	Unit Tripped	140	-	4:50 p.m. May 21

June

6/1/2007	WECC	1:00 p.m.	Restricted Hydroelectric Capability Southwest Idaho and Eastern Oregon	Fuel Supply Deficiency	-	-	Ongoing
6/5/2007	WECC	10:56 a.m.	Southwest Idaho and Eastern Oregon	Load Shedding	424	80,000	11:51 a.m. June 05
6/27/2007	NPCC	3:41 p.m.	Northern Manhattan NY (Yorkville) and SW Bronx (Motthaven, Melrose, High Bridge Sections)	Lightning	460	137,000	4:30 p.m. June 27

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Date	NERC Region	Time	Area Affected	Type of Disturbance	Loss (megawatts)	Customers Affected ¹	Restoration
6/27/2007	NPCC	3:42 p.m.	New York State	Loss of Load	460	-	4:30 p.m. June 27
6/29/2007	WECC	9:23 a.m.	Metropolitan Phoenix Area	Loss of Load	399	98,700	10:09 a.m. June 29
July							
7/3/2007	WECC	10:59 a.m.	CAISO Controlled Grid	Public Appeal	N/A	N/A	6:00 p.m. July 05
7/5/2007	RFC	7:00 p.m.	Southeastern Michigan	Severe Storm	-	69,000	7:00 a.m. July 08
7/6/2007	WECC	5:18 p.m.	Southeast Idaho and Eastern Oregon	Electrical Separation/Load Shedding/Made Public Appeal	60	0	6:20 p.m. July 06
7/10/2007	NPCC	11:00 a.m.	Eastern New York	Major Storms	650	300,000	6:00 a.m. July 12
7/16/2007	WECC	4:17 p.m.	St. George, Utah	Fire/Load Shedding	306	-	9:00 p.m. July 16
7/18/2007	RFC	6:00 p.m.	Northern Counties of Illinois	Severe Weather	300	135,000	2:00 a.m. July 19
7/19/2007	RFC	3:00 p.m.	Southwestern Region of Service Territory	Major Storm	-	60,000	11:30 p.m. July 22
7/19/2007	SERC	3:50 p.m.	North, East and Central Virginia	Major Storms	72	107,000	10:15 p.m. July 19
August							
8/8/2007	SERC	1:00 p.m.	Portions of North Carolina and South Carolina	Made Public Appeal	N/A	N/A	9:00 p.m. August 08

8/8/2007	RFC	3:56 p.m.	Mid-Atlantic Region of PJM	Voltage Reduction/Made Public Appeal	N/A	N/A 5:59 p.m. August 08
8/9/2007	SERC	12:45 p.m.	Portions of North Carolina and South Carolina	Made Public Appeal	N/A	N/A 9:00 p.m. August 09
8/9/2007	RFC	2:53 p.m.	Highland Area of Pittsburgh, Pennsylvania	Severe Thunderstorms	90	55,000 4:11 p.m. August 09
8/10/2007	SERC	12:20 p.m.	Portions of North Carolina and South Carolina	Made Public Appeal	N/A	N/A 9:00 p.m. August 10
8/13/2007	SERC	1:30 a.m.	State of Missouri	Severe Thunderstorm	N/A	63,000 12:00 a.m. August 14
8/14/2007	SPP	2:00 p.m.	CSWS Control Area of Southwest Power Pool Parts of Oklahoma, Texas, Louisiana, Arkansas	Declared Energy Emergency Alert/Heat Wave	20	- 6:00 p.m. August 14
8/16/2007	SERC	9:30 p.m.	Virginia and Eastern North Carolina - Primarily in Central Virginia	Severe Weather	200	93,300 10:49 p.m. August 17
8/19/2007	SERC	11:34 p.m.	Central and Eastern Virginia	Severe Thunderstorms	100	58,500 1:10 a.m. August 20
8/23/2007	RFC	4:00 p.m.	Northern Illinois	Severe Storms	N/A	629,590 10:49 p.m. August 28
8/24/2007	RFC	6:00 p.m.	Southeastern Michigan	Severe Storm	N/A	75,000 6:30 a.m. August 28
8/29/2007	WECC	1:53 p.m.	Modesto California and the Surrounding Areas	Shed Load	180	26,000 2:57 p.m. August 29
8/29/2007	WECC	4:00 p.m.	CAISO Controlled Grid	Made Public Appeal	N/A	N/A 6:00 p.m. August 30
8/31/2007	WECC	12:45 p.m.	CAISO Controlled Grid	Declared Energy Emergency Alert 1/Heat wave	N/A	N/A 8:00 p.m. August 31
September						
9/3/2007	WECC	12:30 p.m.	San Diego County, Southern Orange County, California	High Temperatures/Made Public Appeals	N/A	N/A 5:30 p.m. September 03
9/4/2007	WECC	8:30 a.m.	San Diego County, Southern Orange County, California	High Temperatures/Made Public Appeals	N/A	N/A 3:30 p.m. September 04
9/5/2007	ERCOT	7:53 a.m.	Central Texas, ERCOT Grid	Severe Weather/Transmission Fault-Units Tripped	1,084	N/A 1:11 p.m. September 05
9/6/2007	WECC	8:00 p.m.	Hydro Electric System	Fuel Supply Deficiency	N/A	N/A Ongoing
9/13/2007	SPP	4:00 a.m.	Between Galveston and Beaumont, Texas	Hurricane Humberto	N/A	118,000 7:00 a.m. September 14

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9/17/2007	RFC	7:01 p.m.	City of Crawfordsville, Indiana	Electrical System Separation	50	9,600	7:48 p.m. September 17

9/18/2007	MRO	5:14 a.m.	Minnesota, Wisconsin, North Dakota, South Dakota and Michigan	Electrical System Separation/Load Shedding/ Implemented Emergency Alert/Severe Storms	16	6,000	6:10 a.m. September 18
9/18/2007	MRO	5:15 a.m.	Minnesota, North Dakota, Manitoba	Electrical System Separation/Load Shedding/ Implemented Emergency Alert/Severe Storms	8,000-10,000	GRE (1,900) Total 11,175	6:30 a.m. September 18
9/18/2007	RFC	5:15 a.m.	Manitoba, Minnesota, North Dakota, Portions of South Dakota and Wisconsin. Midwest ISO's Market subregions: OTP, NSP, GRE, ALTW, MP	Electrical System Separation/Load Shedding/ Implemented Emergency Alert/ Severe Storms	8,000-10,000	11,175	12:00 a.m. September 18
9/24/2007	RFC	1:38 p.m.	Southwest Michigan	Unit Tripped	320	N/A	4:26 p.m. September 24
October							
10/18/2007	WECC	3:00 p.m.	Western Washington	High Winds	N/A	160,000	11:36 a.m. October 22
10/22/2007	WECC	2:01 p.m.	Southern California	Brush Fire/Load Shedding/Implemented Emergency Alert	451	90,323	2:22 p.m. October 22
10/22/2007	WECC	2:05 p.m.	Southern California	Brush Fire/Load Shedding	700	300,000	2:22 p.m. October 22
10/22/2007	WECC	2:06 p.m.	San Diego County, California	Brush Fire/Load Shedding	199	68,780	2:43 p.m. October 22
10/26/2007	WECC	6:44 a.m.	Southern California	Brush Fire/Load Shedding	280	20,345	10:46 a.m. October 26
10/26/2007	WECC	6:44 a.m.	Riverside, California	Load Shedding	240	104,000	10:43 a.m. October 26
November							
11/3/2007	NPCC	6:00 p.m.	Eastern Massachusetts, Rhode Island, Cape Cod	Tropical Storm	100	62,843	6:00 a.m. November 04
December							
12/1/2007	NPCC	6:04 p.m.	State of Maine	Voltage Reduction/Made Public Appeal/Fuel Deficiency	0	0	10:00 p.m. December 02
12/4/2007	PR	2:16 p.m.	Island of Puerto Rico	Voltage Reduction	0	0	5:53 p.m. December 04
12/10/2007	SPP	3:08 a.m.	Tulsa, Oklahoma	Ice Storm	N/A	256,663	8:00 a.m. December 19
12/11/2007	MRO	4:00 a.m.	Eastern half of the State of Kansas	Ice Storm	500	95,000	3:30 p.m. December 20
12/11/2007	PR	8:57 p.m.	Island of Puerto Rico	Voltage Reduction	0	0	9:22 p.m. December 11
12/23/2007	RFC	1:00 a.m.	The Entire ComEd Service Territory	Severe Storm	N/A	237,000	9:00 p.m. December 23
12/23/2007	RFC	5:30 a.m.	Lower 2/3 of Michigan Lower Peninsula	Winter Storm	50	134,288	6:07 p.m. December 25

[1] Estimated values.

Note: Estimates for 2007 are preliminary.

Source: Form OE-417, "Electric Emergency Incident and Disturbance Report."