

**OE-417 Electric Emergency and Disturbance (OE-417) Events, 2011<sup>1</sup>**

<b>Date Event Began</b>	<b>Time Event Began</b>	<b>Date of Restoration</b>	<b>Time of Restoration</b>	<b>Area Affected</b>	<b>NERC Region</b>	<b>Event Type</b>	<b>Demand Loss (MW)</b>	<b>Number of Customers Affected</b>
<b>January</b>								
1/11/2011	11:08 PM	1/11/2011	11:08 PM	Athens, New York	NPCC	Electrical Fault at Generator	0	0
1/12/2011	6:00 AM	1/12/2011	2:00 PM	Massachusetts	NPCC	Winter Storm	N/A	80,000
1/13/2011	7:21 AM	1/13/2011	8:13 AM	North Florida	FRCC	Firm System Load Shed	150	20,900
1/18/2011	2:00 PM	1/18/2011	2:00 PM	Whitman, Auburn St Substation, Massachusetts	NPCC	Vandalism	0	0
1/23/2011	7:00 AM	1/23/2011	1:00 PM	Franklin County, Idaho	WECC	Vandalism	0	0
1/24/2011	1:20 PM	1/24/2011	1:30 PM	Newman Power Plant, Texas	WECC	Suspicious Activity	0	0
1/25/2011	3:23 AM	1/25/2011	11:00 AM	Newark, Delaware	RFC	Vandalism	0	0
1/26/2011	9:25 AM	1/27/2011	5:00 PM	Carson City, Nevada	WECC	Suspected Telecommunications Attack	0	0
1/26/2011	9:33 AM	1/27/2011	3:03 PM	Michigan	RFC	Vandalism	0	0
1/26/2011	5:00 PM	1/31/2011	8:00 AM	Montgomery and Prince George's County, Maryland and District of Columbia	RFC	Winter Storm	N/A	210,000
1/26/2011	6:28 PM	1/29/2011	5:00 PM	Maryland	RFC	Winter Storm	N/A	234,326
1/26/2011	7:43 PM	1/27/2011	6:18 PM	Northern Virginia	SERC	Winter Storm	600	150,084
1/27/2011	9:30 AM	1/27/2011	9:30 AM	Hockessin, Delaware	RFC	Vandalism	0	0
1/27/2011	5:00 PM	1/30/2011	5:00 AM	Central New York	NPCC	Fuel Supply Deficiency (Coal)	108	N/A
1/31/2011	10:00 PM	2/3/2011	12:00 PM	Southwestern Ohio and Indiana	RFC	Ice Storm	996	272,880
<b>February</b>								
2/1/2011	3:00 PM	2/3/2011	12:00 PM	Indiana, Ohio	RFC	Winter Storm	UNK	158,013
2/1/2011	9:00 PM	2/2/2011	2:00 PM	Northern Illinois	RFC	Winter Storm	UNK	190,000
2/2/2011	3:00 AM	2/4/2011	11:59 PM	Philadelphia area, Pennsylvania	RFC	Winter Storm	UNK	213,000
2/2/2011	5:43 AM	2/3/2011	10:00 AM	Texas	TRE	Generation Inadequacy/Load Shed	4,000	1,069,730
2/2/2011	6:22 AM	2/2/2011	9:57 AM	Central Arizona	WECC	Generation Inadequacy/Load Shed	3,963	69,000
2/2/2011	7:24 AM	2/2/2011	10:23 PM	Dona Ana and El Paso Counties, Texas and Hudspeth County, New Mexico	WECC	Generation Inadequacy/Load Shed	280	178,000
2/2/2011	5:00 PM	2/3/2011	10:00 PM	Texas Panhandle, Southeastern New Mexico	SPP	Fuel Supply Deficiency (Natural Gas)	UNK	UNK
2/3/2011	3:00 PM	2/4/2011	12:00 PM	San Diego area, California	WECC	Fuel Supply Deficiency (Natural Gas)	N/A	UNK
2/3/2011	2:30 PM	2/3/2011	2:30 PM	Bowie, Maryland	RFC	Suspected Cyber Attack	N/A	0
2/3/2011	10:04 PM	2/4/2011	12:32 PM	Texas	TRE	Generation Inadequacy/Load Shed	400	86,013
2/9/2011	3:45 AM	2/9/2011	9:12 AM	Western Houston, Texas	TRE	Winter Storm	399	60,000

2/9/2011	2:54 PM	2/9/2011	5:00 PM	University Place, Washington	WECC	Vandalism	0	0
2/9/2011	4:30 PM	2/10/2011	12:33 PM	Texas	TRE	Cold Weather Event	N/A	N/A
2/10/2011	1:00 PM	2/10/2011	1:00 PM	LaGrande, Washington	WECC	Vandalism	0	0
2/17/2011	1:25 AM	2/19/2011	10:13 AM	Northern and Central California	WECC	Major Storm	91	80,000
2/17/2011	1:00 PM	2/23/2011	4:53 PM	Roseville, California	WECC	Suspected Cyber Attack	0	0
2/19/2011	12:30 PM	2/20/2011	4:00 AM	Philadelphia area, Pennsylvania	RFC	Major Storm	UNK	118000
2/19/2011	4:34 PM	2/19/2011	4:34 PM	Harrington, Delaware	RFC	Vandalism	0	0
2/20/2011	4:00 PM	2/23/2011	4:00 PM	Southern Lower Peninsula, Michigan	RFC	Winter Storm	262	160,000
2/24/2011	4:51 PM	2/24/2011	4:54 PM	Arkansas	SPP	Electrical System Separation (Islanding)	4	UNK
2/25/2011	3:20 PM	2/25/2011	6:00 PM	Virginia	SERC	Severe Weather	UNK	50000
2/25/2011	3:23 PM	2/27/2011	6:00 PM	Maryland	RFC	Severe Weather	UNK	93000
2/25/2011	8:00 AM	2/28/2011	5:30 PM	Northern and Central California	WECC	Winter Storm	91	80,000
2/25/2011	10:30 AM	2/25/2011	10:45 AM	Salt Lake City, Utah	WECC	Vandalism	0	0
<b>March</b>								
3/1/2011	8:00 AM	3/5/2011	9:30 AM	Western New York	NPCC	Fuel Supply Deficiency (Coal)	675	UNK
3/6/2011	2:54 AM	3/8/2011	8:00 AM	Salt Lake City Region, Utah	WECC	Vandalism	UNK	0
3/8/2011	8:00 AM	3/18/2001	9:00 AM	Western New York	NPCC	Fuel Supply Deficiency (Coal)	676	UNK
3/10/2011	12:03 PM	3/11/2011	6:00 AM	Texas	TRE	Suspected Physical Attack	N/A	N/A
3/11/2011	7:02 AM	3/11/2011	9:15 AM	Humboldt and Eureka, California	WECC	Generation Inadequacy/Load Shed	15	6,800
3/13/2011	2:20 PM	3/14/2011	3:46 PM	Oregon	WECC	Severe Weather	UNK	9,000
3/14/2011	7:30 AM	3/14/2011	4:55 PM	Baltimore, Maryland	RFC	Suspected Cyber Attack	N/A	N/A
3/15/2011	6:00 PM	3/15/2011	7:14 PM	The Woodlands, Texas	TRE	Suspected Physical Attack	N/A	N/A
3/17/2011	7:40 AM	3/17/2011	11:00 AM	Deerfield, New Hampshire	NPCC	Vandalism	N/A	N/A
3/18/2011	9:54 AM	3/18/2011	3:34 PM	Greene County, Ohio	RFC	Vandalism	N/A	N/A
3/19/2011	11:56 PM	3/24/2011	7:10 PM	Northern and Central California	WECC	Major Storm	91	128,000
3/20/2011	9:44 AM	3/21/2011	10:00 AM	Los Angeles, California	WECC	Major Storm	UNK	79,000
3/21/2011	12:35 PM	3/21/2011	2:45 PM	Southern California	WECC	Major Storm	150	54,332
3/21/2011	12:57 AM	3/21/2011	2:29 AM	Deerfield, New Hampshire	NPCC	Vandalism	N/A	N/A
3/23/2011	6:30 PM	3/24/2011	4:55 AM	Indiana, Kentucky, Michigan, Ohio, Tennessee, Virginia, West Virginia	RFC	Major Storm	UNK	60,596
3/27/2011	1:27 PM	3/27/2011	5:00 PM	Sonoma and Central Valley, California	WECC	Transmission Level Outage	295	165,000
3/31/2011	2:30 PM	4/1/2011	11:59 PM	Central and Western Florida	FRCC	Severe Weather	UNK	50,000
3/31/2011	11:30 AM	3/31/2011	8:30 PM	Greater Tampa Bay, Florida	FRCC	Severe Weather	206	87,000

April									
4/3/2011	8:23 PM	4/5/2011	3:00 PM	Unknown	SERC	Suspected Cyber Attack	0	0	
4/4/2011	11:47 AM	4/8/2011	12:01 AM	Memphis, Tennessee	SERC	Severe Weather	359	63,000	
4/4/2011	1:00 PM	4/5/2011	12:00 AM	Shelby County, Tennessee	SERC	Severe Weather	300	63,000	
4/4/2011	2:00 PM	4/8/2011	12:01 AM	Davidson County, Tennessee	SERC	Severe Weather	300	73,000	
4/4/2011	7:00 PM	4/5/2011	8:00 PM	Southeast Arkansas, Southeast Louisiana, Western Mississippi, Eastern Texas	SERC	Severe Weather	UNK	74,645	
4/4/2011	7:00 PM	4/5/2011	12:00 PM	Kentucky, West Virginia	RFC	Severe Weather	UNK	52,920	
4/4/2011	9:00 PM	4/5/2011	11:30 PM	Alabama, Florida, Georgia, Mississippi	SERC	Severe Weather	674	303,434	
4/5/2011	2:00 AM	4/7/2011	11:00 PM	North Carolina, South Carolina	SERC	Severe Weather	1,200	256,000	
4/6/2011	10:50 AM	4/6/2011	10:50 AM	Felton, Delaware	RFC	Vandalism	0	0	
4/11/2011	5:40 PM	4/11/2011	5:51 PM	Salt Lake City, Utah	WECC	Suspicious Activity	0	0	
4/16/2011	2:16 PM	4/17/2011	4:30 PM	Central and Eastern North Carolina	SERC	Severe Weather	UNK	220,000	
4/19/2011	8:00 PM	4/19/2011	10:00 PM	Illinois	SERC	Severe Weather	UNK	80,000	
4/19/2011	2:01 PM	4/19/2011	4:04 PM	Graham, Washington	WECC	Vandalism	0	0	
4/19/2011	10:44 PM	4/20/2011	2:00 AM	Memphis, Tennessee	SERC	Severe Weather	100	64,000	
4/19/2011	11:02 PM	4/21/2011	5:32 PM	Memphis, Tennessee	SERC	Severe Weather	300	105,000	
4/19/2011	11:13 PM	4/20/2011	7:14 PM	Osceola, Arkansas	SERC	Severe Weather	22	UNK	
4/20/2011	2:00 AM	4/21/2011	12:00 PM	Indiana, Kentucky, Ohio	RFC	Severe Weather - High Winds	UNK	165,711	
4/20/2011	8:07 AM	4/20/2011	8:14 AM	Ruston, Louisiana	SERC	Equipment Malfunction	33	11,000	
4/21/2011	7:15 AM	4/21/2011	4:50 PM	Oquirrh Substation, Salt Lake City, Utah	WECC	Vandalism	0	0	
4/21/2011	7:00 PM	4/29/2011	7:05 PM	Trenton, Michigan	RFC	Suspicious Activity	UNK	UNK	
4/22/2011	9:00 PM	4/22/2011	11:00 PM	Metro St. Louis area, Missouri	SERC	Severe Weather	0	55,000	
4/25/2011	4:33 PM	4/25/2011	5:19 PM	Northeast Tennessee	SERC	Equipment Malfunction	140	UNK	
4/25/2011	5:30 PM	4/27/2011	6:00 PM	Arkansas, Louisiana, Mississippi	SPP	Severe Weather	UNK	141,700	
4/26/2011	5:49 AM	4/27/2011	9:59 AM	Southern Louisiana	SPP	Severe Weather	120	UNK	
4/26/2011	9:51 AM	4/28/2011	9:51 AM	Alabama, Georgia, Mississippi, Tennessee	SERC	Severe Weather	UNK	55,000	
4/26/2011	1:04 PM	4/26/2011	2:00 PM	Salt Lake City, Utah	WECC	Vandalism	0	0	
4/26/2011	6:14 PM	4/28/2011	5:00 PM	Eastern Arkansas	SPP	Severe Weather	50	13,000	
4/27/2011	8:00 AM	5/2/2011	4:03 PM	Alabama, Florida, Georgia, Mississippi	SERC	Severe Weather	1,422	426,640	
4/27/2011	10:00 AM	4/29/2011	4:29 PM	Alabama, Georgia, Mississippi, Tennessee	SERC	Severe Weather	UNK	612,000	
4/27/2011	10:00 PM	4/28/2011	10:00 AM	Ohio, Tennessee, Virginia	SERC	Severe Weather	0	69,000	

4/28/2011	5:00 AM	4/30/2011	6:30 PM	Cleveland area, Ohio	RFC	Severe Weather	UNK	86,000
4/28/2011	4:09 PM	4/28/2011	4:10 PM	Phoenix, Arizona	WECC	Equipment Malfunction	960	UNK
<b>May</b>								
5/2/2011	5:06 PM	5/2/2011	8:00 PM	Hawaii	N/A	Severe Weather	220	62,000
5/2/2011	2:00 PM	5/2/2011	2:00 PM	West River Substation, New Haven, Connecticut	NPCC	Suspected Physical Attack	0	0
5/2/2011	8:52 AM	5/2/2011	10:46 AM	N. Ogden Substation, Ogden, Utah	WECC	Vandalism	0	0
5/3/2011	12:00 PM	5/5/2011	12:00 PM	St. Lawrence Power Dam, New York	NPCC	Suspected Physical Attack	0	0
5/4/2011	1:08 PM	5/4/2011	1:25 PM	Maryland	RFC	Suspected Physical Attack	0	0
5/4/2011	12:20 PM	5/4/2011	3:40 PM	Michigan	RFC	Suspected Sabotage	0	0
5/5/2011	9:15 AM	5/5/2011	9:15 AM	New Hampshire	NPCC	Vandalism	0	0
5/6/2011	6:56 AM	5/6/2011	10:30 AM	Alderwood Substation, Portland, Oregon	WECC	Vandalism	0	0
5/8/2011	7:35 PM	5/8/2011	7:35 PM	New York	NPCC	Vandalism	UNK	0
5/9/2011	1:11 PM	5/9/2011	1:11 PM	Milton, New Hampshire	NPCC	Vandalism	0	0
5/9/2011	4:08 AM	5/9/2011	6:40 AM	Holtwood, Pennsylvania	RFC	Suspected Physical Attack	630	UNK
5/10/2011	10:21 PM	5/11/2011	2:25 PM	Kentucky, West Virginia	RFC	Severe Weather	UNK	58,000
5/10/2011	1:45 PM	5/10/2011	3:00 PM	New Hampshire	NPCC	Vandalism	0	0
5/10/2011	3:25 AM	5/11/2011	2:10 PM	Upper Peninsula, Michigan	RFC	Generation Inadequacy; Load Shed; Electrical System Separation (Islanding)	585	78,213
5/11/2011	3:55 PM	5/12/2011	1:57 PM	Colbyville, Haines Road and Arrowhead Substations, Minnesota	MRO	Vandalism	0	0
5/11/2011	1:35 PM	5/11/2011	1:35 PM	Green River, Wyoming	WECC	Vandalism	0	0
5/11/2011	11:00 AM	5/11/2011	11:30 AM	North Chelsea Substation, New York	NPCC	Vandalism	0	0
5/11/2011	12:15 AM	5/11/2011	5:20 PM	Charlotte, North Carolina	SERC	Severe Weather	300	71,000
5/13/2011	6:00 AM	5/13/2011	6:00 AM	Salt Lake, Utah	WECC	Vandalism	0	0
5/21/2011	5:00 PM	5/22/2011	6:34 PM	Dixie Valley Area, Nevada	WECC	Physical Attack	56	UNK
5/22/2011	5:09 PM	5/31/2011	12:01 PM	Joplin, Sarcoxie, and Wentworth, Missouri	SPP	Severe Weather	200	20,000
5/23/2011	4:45 PM	5/25/2011	11:59 PM	Central, Indiana	RFC	Severe Weather	1,024	215,387
5/23/2011	12:30 PM	5/25/2011	12:30 PM	St. Louis County, Missouri	SERC	Severe Weather	UNK	70,000
5/24/2011	4:45 PM	5/26/2011	5:00 PM	Central Oklahoma	SPP	Severe Weather	UNK	54,000
5/24/2011	4:35 PM	5/25/2011	12:40 PM	Eastern Virginia	SERC	Severe Weather	790	175,000
5/24/2011	9:00 AM	5/25/2011	9:10 AM	Chicago, Illinois	RFC	Physical Attack	0	0
5/25/2011	10:14 PM	5/28/2011	11:00 AM	Central Indiana	RFC	Severe Weather	200	141,000
5/26/2011	7:56 PM	5/27/2011	6:00 PM	Central Pennsylvania	RFC	Severe Weather	150	120,001
5/26/2011	6:30 PM	5/28/2011	4:44 AM	Southern Balancing Area, Georgia	SERC	Severe Weather	729	218,783

5/26/2011	1:00 AM	5/26/2011	6:00 AM	Greenwood, Mississippi	SERC	Transmission Level Interruption	30	10,000
5/29/2011	6:30 PM	5/31/2011	10:00 PM	Mid and Southern Lower Peninsula, Michigan	RFC	Severe Weather	250	113,000
<b>June</b>								
6/2/2011	11:45 PM	6/4/2011	4:00 PM	Greater Columbia, South Carolina	SERC	Severe Weather	0	50,465
6/4/2011	1:17 AM	6/4/2011	3:25 AM	Midway, California	WECC	Vandalism	UNK	420
6/5/2011	5:30 AM	6/6/2011	1:30 AM	Houston Metro-Area, Texas	TRE	Severe Thunderstorms	473	78,000
6/5/2011	8:02 PM	6/5/2011	8:55 PM	Melones, California	WECC	Electrical System Separation (Islanding)	10	5,314
6/6/2011	12:13 AM	6/6/2011	3:15 AM	El Paso County, Texas; Dona Ana County, New Mexico	SPP	Load Shed/ Automatic undervoltage relay action	450	162,000
6/6/2011	3:00 PM	6/8/2011	3:00 PM	Eastern, Arkansas	SPP	Public Appeal to Reduce Electricity Usage	UNK	13,000
6/7/2011	2:00 PM	6/8/2011	6:00 AM	Ohio	RFC	Severe Weather	UNK	52,747
6/8/2011	12:58 PM	6/8/2011	12:58 PM	Fredrickson Substation, Washington	WECC	Vandalism	N/A	N/A
6/9/2011	4:30 AM	6/9/2011	12:00 PM	Illinois	RFC	Severe Thunderstorms	UNK	169,000
6/9/2011	2:15 PM	6/9/2011	2:15 PM	San Antonio Dam Area, Los Angeles County, California	WECC	Suspected Physical Attack	0	0
6/9/2011	5:51 PM	6/10/2011	12:00 PM	Western, Massachusetts; Connecticut	NPCC	Severe Thunderstorms	0	100,000
6/12/2011	7:00 PM	6/12/2011	8:30 PM	Virginia	RFC	Severe Thunderstorms	250	56,000
6/15/2011	4:00 PM	6/16/2011	6:30 AM	Bingham County, Idaho	WECC	Vandalism	N/A	N/A
6/15/2011	7:15 PM	6/16/2011	6:00 AM	Georgia	SERC	Severe Thunderstorms	563	169,000
6/15/2011	7:17 PM	6/16/2011	1:45 AM	Piedmont, North Carolina	SERC	Severe Thunderstorms	300	70,135
6/18/2011	3:30 PM	6/19/2011	3:42 PM	Northern, Georgia	SERC	Severe Thunderstorms	312	93,828
6/18/2011	4:45 PM	6/20/2011	11:59 PM	Eastern, Arkansas	SPP	Public Appeal to Reduce Electricity Usage	UNK	UNK
6/18/2011	5:00 PM	6/18/2011	9:33 PM	North Carolina; South Carolina	SERC	Severe Thunderstorms	300	70,000
6/20/2011	10:36 AM	6/20/2011	10:36 AM	Collins Substation, Washington	WECC	Vandalism	0	0
6/21/2011	6:30 PM	6/22/2011	7:00 AM	AEP Region	RFC	Severe Weather	UNK	56,000
6/21/2011	9:45 PM	6/23/2011	2:00 AM	Illinois	RFC	Severe Thunderstorms	UNK	300,000
6/22/2011	9:46 AM	6/22/2011	9:46 AM	Knoxville, Tennessee	SERC	Severe Weather	UNK	106,300
6/22/2011	7:00 PM	6/23/2011	1:00 AM	Alabama; Georgia	SERC	Severe Thunderstorms	316	75,101
6/22/2011	8:12 PM	6/22/2011	8:12 PM	Knoble Substation, Spanaway, Washington	WECC	Vandalism	0	0
6/23/2011	8:10 AM	6/23/2011	9:00 AM	Highgate, Vermont	NPCC	Vandalism	0	0
6/24/2011	6:30 PM	6/25/2011	1:30 AM	North/North Central Alabama; Georgia	SERC	Severe Thunderstorms	340	102,275
6/26/2011	4:46 PM	6/27/2011	7:59 AM	Southwest Kansas	SPP	Public Appeal to Reduce Electricity Usage	UNK	UNK
6/26/2011	6:00 PM	6/27/2011	1:00 PM	Alabama; Georgia	SERC	Severe Thunderstorms	300	90,160

6/27/2011	12:00 AM	6/29/2011	1:00 AM	Illinois; Missouri	SERC	Severe Thunderstorms	UNK	80,000
6/27/2011	3:00 PM	6/27/2011	7:00 PM	Texas	TRE	Public Appeal to Reduce Electricity Usage	0	0
6/27/2011	6:55 PM	6/27/2011	6:55 PM	Olympic Pipeline Substation, Washington	WECC	Vandalism	UNK	UNK
6/29/2011	11:30 AM	6/29/2011	6:04 PM	Panhandle and Muleshoe, Texas	SPP	Public Appeal to Reduce Electricity Usage	0	0
6/30/2011	2:11 PM	6/30/2011	11:25 PM	Phoenix, Arizona	WECC	Major System Interruption/Load Shed	5,299	160,000
6/30/2011	10:30 PM	7/1/2011	5:00 PM	Illinois	RFC	Severe Weather	UNK	121,000
6/30/2011	10:31 PM	6/30/2011	10:31 PM	Olympic Pipeline Substation, Washington	WECC	Vandalism	0	0
<b>July</b>								
7/1/2011	8:00 AM	7/1/2011	8:01 AM	CONVEX Local Control Center, Connecticut	NPCC	Vandalism	0	0
7/1/2011	4:38 PM	7/1/2011	10:38 PM	Greene County Ohio	RFC	Vandalism	N/A	0
7/1/2011	5:00 PM	7/3/2011	8:00 PM	Southwest and South Central Minnesota	MRO	Severe Weather	UNK	70,000
7/2/2011	8:15 PM	7/6/2011	10:00 PM	South East, Lower Peninsula, Michigan	RFC	Severe Weather	UNK	182,000
7/4/2011	6:00 PM	7/4/2011	9:00 PM	Virginia	SERC	Severe Weather	150	51,580
7/5/2011	10:40 AM	7/5/2011	11:37 AM	West Valley Substation Utah	WECC	Vandalism	0	0
7/6/2011	9:51 AM	7/6/2011	9:52 AM	Vermont	NPCC	Vandalism	N/A	N/A
7/8/2011	10:00 AM	7/8/2011	10:00 AM	Saginaw, Minnesota	MRO	Vandalism	0	0
7/8/2011	10:00 AM	7/11/2011	9:00 AM	PJM Corporate Office, Pennsylvania	RFC	Suspected Cyber Attack	UNK	UNK
7/11/2011	9:00 AM	7/11/2011	9:00 AM	Illinois	RFC	Severe Weather	UNK	500,000
7/11/2011	9:00 AM	7/11/2011	10:25 AM	Michigan	RFC	Severe Weather	254	103,000
7/11/2011	11:15 AM	7/12/2011	8:15 AM	Western and Southern Lower Peninsula Michigan	RFC	Severe Weather	UNK	85,000
7/11/2011	1:13 PM	7/11/2011	1:13 PM	Southwest Ohio	RFC	Vandalism	0	0
7/11/2011	1:30 PM	7/11/2011	1:30 PM	Maine	NPCC	Vandalism	N/A	0
7/11/2011	2:27 PM	7/12/2011	3:50 PM	Indiana, Michigan, Ohio	RFC	Severe Weather	UNK	120,000
7/12/2011	12:00 PM	7/12/2011	12:00 PM	Maine	NPCC	Vandalism	N/A	0
7/12/2011	8:20 PM	7/12/2011	9:30 PM	California	WECC	Suspected Physical Attack	UNK	UNK
7/13/2011	5:19 PM	7/13/2011	10:03 PM	Pueblo, Colorado	WECC	Load Shed	580	N/A
7/14/2011	11:00 AM	7/14/2011	7:00 PM	Texas	TRE	Public Appeal to Reduce Electricity Usage	0	0
7/18/2011	5:00 PM	7/24/2011	1:30 PM	Southeast Michigan	RFC	Severe Weather	N/A	197,166
7/19/2011	11:45 AM	7/19/2011	3:00 PM	Maine	NPCC	Vandalism	N/A	N/A

7/20/2011	9:10 AM	7/20/2011	4:30 PM	Frederickson Substation, Washington	WECC	Vandalism	N/A	N/A
7/21/2011	12:32 PM	7/22/2011	6:30 AM	Lower Peninsula, Michigan	RFC	Public Appeal to Reduce Electricity Usage	8,881	N/A
7/21/2011	1:00 PM	7/21/2011	3:00 PM	Springfield, Illinois	SERC	Public Appeal to Reduce Electricity Usage	N/A	N/A
7/22/2011	11:00 AM	7/22/2011	6:00 PM	Upstate, New York	NPCC	Public Appeal to Reduce Electricity Usage	N/A	N/A
7/22/2011	11:34 AM	7/22/2011	5:26 PM	Ohio	RFC	Load Shed	206	23,000
7/23/2011	2:30 AM	7/24/2011	9:00 AM	Illinois	RFC	Severe Weather	UNK	169,000
7/24/2011	2:34 PM	7/24/2011	3:47 PM	Southern, New Hampshire	NPCC	Vandalism	0	0
7/26/2011	12:01 PM	7/26/2011	12:01 PM	Backup Control Center, Oklahoma	SPP	Vandalism	0	0
7/27/2011	12:07 PM	7/27/2011	12:08 PM	Fife, Washington	WECC	Vandalism	N/A	N/A
7/28/2011	7:26 AM	7/29/2011	7:26 AM	Daviess County, Kentucky	SERC	Fuel Supply Deficiency (Coal)	N/A	N/A
7/28/2011	12:14 AM	7/29/2011	12:00 PM	Entire ComEd Territory, Indiana	RFC	Severe Weather	UNK	201,000
7/28/2011	1:32 PM	7/28/2011	1:32 PM	Indiana	RFC	Vandalism	N/A	N/A
7/28/2011	7:25 PM	7/28/2011	7:25 PM	Spanaway, Washington	WECC	Vandalism	N/A	N/A
7/29/2011	11:46 AM	7/29/2011	5:00 PM	Fredrickson, Washington	WECC	Vandalism	N/A	N/A
7/29/2011	8:45 PM	8/1/2011	4:24 AM	Central New Jersey	RFC	Severe Weather	N/A	67,900
<b>August</b>								
8/1/2011	3:00 PM	8/5/2011	7:00 PM	Texas	TRE	Public Appeal to Reduce Electricity Usage	0	0
8/1/2011	2:18 PM	8/1/2011	2:18 PM	Jefferson, Oregon	WECC	Vandalism	N/A	N/A
8/2/2011	9:30 PM	8/3/2011	7:00 PM	Northeast, Illinois	RFC	Severe Weather	UNK	71,500
8/2/2011	10:15 AM	8/3/2011	9:16 AM	Oklahoma	SPP	Public Appeal to Reduce Electricity Usage	N/A	N/A
8/3/2011	10:00 AM	8/19/2011	10:00 AM	Western New York	NPCC	Fuel Supply Deficiency (Coal)	675	UNK
8/3/2011	4:30 PM	8/3/2011	9:00 PM	Central Arkansas	SPP	Public Appeal to Reduce Electricity Usage	0	0
8/3/2011	4:29 PM	8/3/2011	11:40 PM	Northeast Oklahoma	SPP	Public Appeal to Reduce Electricity Usage	300	N/A
8/4/2011	10:30 AM	8/4/2011	4:00 PM	Arkansas, Oklahoma, Texas	SPP	Public Appeal to Reduce Electricity Usage	N/A	N/A
8/8/2011	9:30 AM	8/8/2011	9:30 AM	Greene County, Ohio	RFC	Suspected Physical Attack	0	0
8/8/2011	8:58 PM	8/10/2011	4:30 PM	Northern and Central Oklahoma	SPP	Severe Weather	N/A	54,000
8/8/2011	7:36 PM	8/9/2011	12:00 PM	Oklahoma	SPP	Electrical System Separation (Islanding)	92	14,500
8/8/2011	9:35 AM	8/8/2011	4:00 PM	Collins Substation, Washington	WECC	Vandalism	N/A	N/A
8/9/2011	10:26 AM	8/9/2011	5:00 PM	Polk Substation, Tacoma, Washington	WECC	Vandalism	N/A	N/A

8/13/2011	4:41 PM	8/14/2011	7:00 PM	Kentucky	SERC	Severe Weather	UNK	181,700
8/15/2011	2:05 AM	8/15/2011	3:40 AM	Utah	WECC	Vandalism	0	0
8/18/2011	9:51 AM	8/18/2011	4:00 PM	Collins Substation, Washington	WECC	Suspected Physical Attack	N/A	N/A
8/20/2011	5:42 PM	8/23/2011	8:00 PM	Southeastern Michigan	RFC	Severe Weather	254	65,000
8/21/2011	10:45 PM	8/23/2011	10:45 PM	Puerto Rico	N/A	Severe Weather	2,200	931,000
8/22/2011	10:05 AM	8/22/2011	4:00 PM	Collins Substation, Washington	WECC	Suspected Physical Attack	N/A	N/A
8/23/2011	1:51 PM	8/23/2011	1:51 PM	Virginia	RFC	Earthquake	0	0
8/23/2011	10:30 AM	8/23/2011	4:54 PM	Southeastern New Mexico, Texas Panhandle	SPP	Public Appeal to Reduce Electricity Usage	0	0
8/23/2011	3:43 PM	8/23/2011	7:00 PM	Texas	TRE	Public Appeal to Reduce Electricity Usage	0	0
8/24/2011	1:20 PM	8/29/2011	7:00 PM	Texas	TRE	Public Appeal to Reduce Electricity Usage	0	0
8/24/2011	7:45 AM	8/25/2011	6:00 AM	Houston area, Texas	TRE	Severe Weather	485	79,000
8/24/2011	2:51 PM	8/24/2011	10:00 PM	Arkansas, Louisiana, Texas	SPP	Severe Weather	N/A	53,064
8/25/2011	12:01 AM	8/25/2011	12:01 AM	Maine	NPCC	Suspected Physical Attack	0	0
8/25/2011	12:30 AM	8/28/2011	8:00 PM	Cleveland area, Ohio	RFC	Severe Weather	N/A	107,833
8/26/2011	12:30 AM	8/28/2011	12:30 AM	Pennsylvania	RFC	Severe Weather	N/A	200,717
8/27/2011	11:05 PM	8/29/2011	3:30 PM	District of Columbia; Maryland	RFC	Severe Weather	N/A	220,000
8/27/2011	11:00 PM	8/29/2011	8:00 AM	Maryland	RFC	Severe Weather	UNK	108,000
8/27/2011	10:00 PM	8/29/2011	4:00 PM	Southern New Jersey	RFC	Severe Weather	320	140,000
8/27/2011	10:00 PM	8/29/2011	10:00 PM	Pennsylvania	RFC	Severe Weather	N/A	264,000
8/27/2011	8:30 PM	9/4/2011	11:30 PM	Maryland	RFC	Severe Weather	1,114	760,113
8/27/2011	1:00 PM	8/29/2011	1:00 PM	Delaware; Maryland	RFC	Severe Weather	N/A	165,000
8/27/2011	7:00 PM	8/29/2011	1:31 PM	Eastern North Carolina	SERC	Severe Weather	200	136,000
8/27/2011	10:33 AM	8/29/2011	2:00 PM	North Carolina; Virginia	SERC	Severe Weather	UNK	1,000,000
8/27/2011	2:57 AM	8/29/2011	11:30 PM	Eastern North Carolina	SERC	Severe Weather	UNK	285,465
8/27/2011	2:00 AM	8/27/2011	5:15 AM	Wilson County North Carolina	SERC	Distribution System Interruption	2	1,200
8/28/2011	12:30 PM	8/28/2011	12:31 PM	New York	NPCC	Severe Weather	N/A	116,000
8/28/2011	12:10 PM	8/28/2011	12:11 PM	Eastern Massachusetts	NPCC	Severe Weather	N/A	50,000
8/28/2011	9:42 AM	8/30/2011	12:01 AM	Eastern New York	NPCC	Severe Weather	N/A	100,000
8/28/2011	7:40 AM	8/29/2011	7:40 AM	Southwest Connecticut	NPCC	Severe Weather	N/A	158,000
8/28/2011	7:00 AM	9/3/2011	12:01 AM	New York	NPCC	Severe Weather	UNK	99,700



8/28/2011	5:01 AM	9/3/2011	5:01 AM	Borough's and Westshester County New York	NPCC	Severe Weather	N/A	50000
8/28/2011	5:00 AM	8/30/2011	5:00 AM	Long Island, New York	NPCC	Severe Weather	UNK	152,261
8/28/2011	12:01 AM	8/30/2011	12:01 AM	Mid-Hudson, New York	NPCC	Severe Weather	N/A	180,000
8/28/2011	2:58 AM	8/30/2011	2:58 AM	Eastern and Northeastern Pennsylvania	RFC	Severe Weather	110	284,000
8/28/2011	12:30 AM	8/30/2011	12:30 AM	Northern and Central New Jersey	RFC	Severe Weather	N/A	650,000
8/28/2011	12:23 AM	8/30/2011	12:23 AM	New Jersey	RFC	Severe Weather	500	665,000
8/28/2011	8:55 PM	8/28/2011	11:39 PM	Calapooya Substation, Oregon	WECC	Suspected Physical Attack	0	0
8/31/2011	12:52 PM	8/31/2011	12:52 PM	Southwest Ohio	RFC	Suspected Physical Attack	0	0
<b>September</b>								
9/1/2011	8:13 AM	9/1/2011	4:00 PM	Graham Substaion, Washington	WECC	Vandalism	N/A	N/A
9/3/2011	2:00 PM	9/8/2011	6:00 PM	Southeast Lower Peninsula, Michigan	RFC	Severe Weather	UNK	105,000
9/5/2011	4:30 PM	9/7/2011	3:45 PM	Alabama; Georgia	SERC	Severe Weather	177	53,295
9/7/2011	12:08 AM	9/7/2011	10:50 AM	Western Connecticut; New York	NPCC	Actual Physical Attack	0	0
9/8/2011	3:28 PM	9/10/2011	3:30 PM	Arizona; California	WECC	Transmission/Distribution Interruption; Load Shed; Generation Inadequacy	7,000	2,000,000
9/8/2011	7:53 PM	9/9/2011	4:00 PM	Collins Substation, Tacoma, Washington	WECC	Vandalism	N/A	N/A
9/12/2011	9:15 AM	9/12/2011	3:30 PM	English Creek, New Jersey	RFC	Vandalism	0	0
9/13/2011	11:43 AM	9/14/2011	4:00 PM	Lacamas Substation, Roy, Washington	WECC	Vandalism	N/A	N/A
9/13/2011	2:03 PM	9/13/2011	6:21 PM	Saranac, New York	NPCC	Vandalism	N/A	0
9/14/2011	9:00 AM	9/14/2011	2:00 PM	Salt Lake County, Utah	WECC	Vandalism	0	0
9/20/2011	12:55 PM	9/20/2011	5:00 PM	Lacamas Substaion, Washington	WECC	Vandalism	N/A	N/A
9/21/2011	10:30 AM	9/21/2011	10:30 AM	Hockessin, Delaware	RFC	Suspected Physical Attack	0	0
9/21/2011	2:37 PM	9/21/2011	3:47 PM	Puerto Rico	N/A	Generation Inadequacy; Load Shed	600	319,616
9/22/2011	2:50 PM	9/22/2011	2:51 PM	Montgomery County, Ohio	RFC	Vandalism	N/A	0
9/23/2011	9:04 AM	9/23/2011	9:04 AM	North Haven, Connecticut	NPCC	Vandalism	0	0
9/24/2011	4:17 PM	9/25/2011	4:00 PM	Collins Substation, Tacoma, Washington	WECC	Vandalism	N/A	N/A
9/26/2011	10:15 AM	9/26/2011	10:15 AM	McKee City, New Jersey	RFC	Vandalism	0	0
9/29/2011	5:00 AM	9/30/2011	6:00 AM	Houston metro area, Texas	TRE	Severe Weather	N/A	65000
9/28/2011	9:30 AM	9/28/2011	1:00 PM	Watertown, Connecticut	NPCC	Vandalism	N/A	N/A
9/28/2011	2:59 PM	9/28/2011	2:59 PM	Dorothy, New Jersey	RFC	Vandalism	0	0
9/28/2011	4:41 PM	9/28/2011	4:41 PM	Bethany Beach, Delaware	RFC	Suspected Physical Attack	0	0
9/29/2011	6:44 PM	9/30/2011	4:00 PM	Collins Substation, Tacoma, Washington	WECC	Vandalism	N/A	N/A

9/30/2011	8:22 AM	9/30/2011	8:22 AM	Wilmington, Delaware	RFC	Suspected Physical Attack	0	0
<b>October</b>								
10/6/2011	11:07 AM	10/6/2011	11:07 AM	Oquirrh Substation, Utah	WECC	Vandalism	0	0
10/7/2011	8:04 AM	10/7/2011	4:00 PM	Olympic Pipeline, Spanaway, Washington	WECC	Suspected Physical Attack	N/A	N/A
10/14/2011	2:20 PM	10/14/2011	2:20 PM	English Creek, New Jersey	RFC	Vandalism	0	0
10/17/2011	3:34 AM	10/17/2011	10:42 AM	Seat Pleasant, Maryland	RFC	Vandalism	0	0
10/17/2011	3:44 PM	10/17/2011	3:44 PM	Southwest Ohio	RFC	Vandalism	7	2,000
10/18/2011	3:45 AM	10/18/2011	5:25 AM	Holmesburg Substation, Philadelphia, Pennsylvania	RFC	Suspected Physical Attack	0	0
10/20/2011	7:15 AM	10/20/2011	7:15 AM	McKee, New Jersey	RFC	Vandalism	0	0
10/24/2011	11:37 PM	10/26/2011	11:00 PM	Holmesburg Substation, Philadelphia, Pennsylvania	RFC	Suspected Physical Attack	0	0
10/26/2011	5:00 AM	10/27/2011	3:00 PM	Denver; Ft. Collins, Colorado	WECC	Severe Weather	UNK	204,000
10/27/2011	1:00 AM	10/27/2011	2:36 AM	Munster, Indiana	RFC	Vandalism	N/A	N/A
10/29/2011	8:59 AM	11/7/2011	7:58 PM	Pennsylvania	RFC	Severe Weather	UNK	312,359
10/29/2011	8:59 AM	11/7/2011	3:00 PM	Pennsylvania	RFC	Severe Weather	UNK	50,000
10/29/2011	9:59 AM	11/7/2011	1:00 PM	Northwest and Central New Jersey	RFC	Severe Weather	UNK	379,000
10/29/2011	11:18 AM	11/4/2011	12:00 AM	Southeast New York	NPCC	Severe Weather	UNK	161,151
10/29/2011	12:57 PM	11/3/2011	11:00 PM	Harrisburg, Lehigh Valley, Lancaster Region Pennsylvania	RFC	Severe Weather	UNK	146,721
10/29/2011	2:00 PM	10/31/2011	14:00	Southeast Pennsylvania	RFC	Severe Weather	UNK	109,335
10/29/2011	2:30 PM	11/6/2011	12:00 PM	New Jersey	RFC	Severe Weather	125	197,000
10/29/2011	3:00 PM	11/2/2011	8:15 AM	Mid-Hudson Valley Region, New York	NPCC	Severe Weather	N/A	145,000
10/29/2011	4:14 PM	11/7/2011	4:00 PM	Connecticut; Maine; Massachusetts; New Hampshire; Rhode Island	NPCC	Severe Weather	UNK	1,418,100
10/29/2011	4:16 PM	11/2/2011	9:30 PM	New York City area	NPCC	Severe Weather	UNK	50,000
10/29/2011	8:00 PM	10/31/2011	8:00 PM	New Jersey; New York	NPCC, RFC	Severe Weather	N/A	74,000
<b>November</b>								
11/4/2011	10:46 AM	11/4/2011	10:46 AM	Sweetwater County, Wyoming	WECC	Vandalism	0	0
11/13/2011	11:30 AM	11/13/2011	12:00 PM	Cate Road, Deerfield, New Hampshire	NPCC	Vandalism	0	0
11/14/2011	2:24 PM	11/14/2011	2:24 PM	McKee, New Jersey	RFC	Vandalism	0	0
11/22/2011	11:16 PM	11/22/2011	11:16 PM	Indiana	RFC	Suspected Physical Attack	0	0
11/30/2011	10:00 AM	11/30/2011	11:00 AM	Orchard Substation, Washington	WECC	Vandalism	0	0

11/30/2011	4:56 PM	12/2/2011	10:00 AM	City of Los Angeles, California	WECC	Severe Weather	UNK	150,000
<b>December</b>								
12/1/2011	12:45 AM	12/7/2011	9:00 PM	Southern California	WECC	Severe Weather	UNK	91,690
12/1/2011	3:29 AM	12/2/2011	1:05 PM	Northern California	WECC	Severe Weather	300	100,000
12/1/2011	10:00 AM	12/2/2011	1:11 PM	Wasatch Front Area Utah	WECC	Severe Weather	UNK	60,000
12/2/2011	4:15 PM	12/2/2011	8:30 PM	Rusk County Texas	TRE	Suspected Physical Attack	N/A	N/A
12/5/2011	2:00 PM	12/6/2011	5:00 PM	Tacoma, Washington	WECC	Suspected Physical Attack	N/A	N/A
12/6/2011	8:00 AM	12/6/2011	8:00 PM	Bismarck-Mandan, North Dakota	MRO	Public Appeal to Reduce Electricity Usage	155	34,500
12/6/2011	5:38 PM	12/7/2011	11:04 AM	Montague, Michigan	RFC	Suspected Physical Attack	0	0
12/7/2011	7:29 PM	12/7/2011	10:57 PM	Central Virginia	SERC	Severe Weather	240	60,000
12/8/2011	8:45 AM	12/8/2011	4:30 PM	Tacoma, Washington	WECC	Suspected Physical Attack	N/A	N/A
12/13/2011	3:19 AM	12/14/2011	3:19 AM	Clinton County Ohio	RFC	Suspected Physical Attack	N/A	0
12/19/2011	8:48 AM	12/19/2011	4:00 PM	Croft Substation, Tacoma, Washington	WECC	Suspected Physical Attack	N/A	N/A
12/20/2011	7:45 AM	12/20/2011	8:45 AM	Sweet Home, Oregon	WECC	Suspected Physical Attack	12	2,500
12/20/2011	9:30 AM	12/20/2011	9:31 AM	Tacoma, Washington	WECC	Suspected Physical Attack	N/A	N/A
12/21/2011	10:30 AM	12/21/2011	10:30 AM	Boise, Idaho	WECC	Suspected Cyber Attack	0	0
12/31/2011	9:26 PM	12/31/2011	9:26 PM	Tacoma, Washington	WECC	Suspected Physical Attack	N/A	N/A

<sup>1</sup> Source: Submissions of all Electric Emergency Incident and Disturbance Reports (OE-417), <http://www.oe.netl.doe.gov/oe417.aspx>