

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2016

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
January	1/4/2016	5:15 AM	1/5/2016	8:00 AM	Wisconsin: Milwaukee County;	MRO	Suspected Physical Attack	Sabotage	0	0
January	1/10/2016	8:46 PM	1/11/2016	5:25 AM	Maine: Connecticut: Massachusetts: Vermont: New Hampshire: Rhode Island:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	59,859
January	1/11/2016	8:16 PM	1/11/2016	11:00 PM	Pennsylvania: Chester County;	RFC	Suspected Physical Attack	Vandalism	0	0
January	1/14/2016	8:27 AM	1/14/2016	12:00 PM	Delaware:	RFC	Suspected Physical Attack	Vandalism	0	0
January	1/17/2016	12:00 PM	1/17/2016	1:00 PM	Utah: Salt Lake County;	WECC	Suspected Physical Attack	Sabotage	0	0
January	1/22/2016	3:52 PM	1/24/2016	12:30 PM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	150,000
January	1/23/2016	7:49 AM	1/23/2016	9:05 AM	New Jersey:	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	50,900
February	2/5/2016	11:21 AM	2/6/2016	3:48 PM	Connecticut: Massachusetts: Rhode Island:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	115057
February	2/7/2016	11:30 AM	Unknown	Unknown	New York: Orange County	NPCC	Suspected Cyber Attack	Cyber Attack	Unknown	Unknown
February	2/7/2016	2:58 PM	Unknown	Unknown	Oregon: Klamath County	WECC	Suspected Physical Attack	Sabotage	Unknown	Unknown
February	2/7/2016	1:21 PM	2/7/2016	1:42 PM	Utah: Salt Lake County	WECC	Suspected Physical Attack	Vandalism	0	0
February	2/13/2016	12:44 PM	2/13/2016	4:27 PM	California	SERC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	7	4300
February	2/16/2016	8:35 AM	2/16/2016	5:28 PM	Virginia: Roanoke County, Montgomery County; West Virginia: Kanawha County, Cabell County; Tennessee: Sullivan County;	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	52640
February	2/19/2016	10:00 PM	2/20/2016	11:13 PM	Michigan	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	145314
February	2/21/2016	3:54 PM	2/21/2016	5:07 PM	Oregon: Klamath County	WECC	Suspected Physical Attack	Sabotage	0	0
February	2/24/2016	2:45 PM	2/25/2016	5:00 AM	North Carolina: South Carolina	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	400	284610
February	2/24/2016	9:10 AM	2/24/2016	10:15 AM	Delaware	RFC	Suspected Physical Attack	Vandalism	0	0

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February	2/25/2016	1:44 AM	2/25/2016	2:45 PM	Connecticut: Maine: Massachusetts: Rhode Island: Vermont:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	114190
February	2/26/2016	4:35 PM	2/26/2016	8:22 PM	Arizona: Maricopa County	WECC	Suspected Physical Attack	Sabotage - Operator Action(s)	2	2713
February	2/26/2016	12:01 AM	Unknown	Unknown	California: San Bernardino County	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	0	0
March	3/1/2016	1:35 PM	Unknown	Unknown	Idaho: Ada County;	WECC	Suspected Physical Attack	Vandalism	0	0
March	3/1/2016	3:00 PM	Unknown	Unknown	Washington: King County, Whatcom County, Kitsap County, Skagit County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	56000
March	3/3/2016	11:00 AM	4/6/2016	7:47 PM	California: San Bernardino County;	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	0	0
March	3/8/2016	12:00 AM	3/8/2016	12:00 AM	Idaho: Bannock County;	WECC	Suspected Physical Attack	Sabotage	0	0
March	3/10/2016	4:00 AM	3/11/2016	11:59 AM	Washington: Kitsap County, King County, Whatcom County, Island County, Skagit County;	WECC	Suspected Physical Attack	Sabotage	0	0
March	3/13/2016	2:00 PM	Unknown	Unknown	Washington: Island County, Skagit County, Whatcom County, King County, Kitsap County, Pierce County, Thurston County;	WECC	Suspected Physical Attack	Sabotage	0	0
March	3/13/2016	4:55 PM	Unknown	Unknown	Washington:	WECC	Suspected Physical Attack	Vandalism	0	0
March	3/23/2016	5:00 AM	3/25/2016	11:59 PM	Colorado: Denver, City and County of[12];	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	0	0
March	3/27/2016	12:00 PM	3/27/2016	1:00 PM	Nevada: Clark County;	WECC	Suspected Physical Attack	Sabotage	Unknown	110000
March	3/30/2016	9:12 PM	3/31/2016	3:00 PM	Massachusetts: Middlesex County[13];	NPCC	Suspected Physical Attack	Sabotage	200	50500
April	4/1/2016	4:37 PM	4/1/2016	6:00 PM	Florida: Hillsborough County	FRCC	Suspected Physical Attack	Sabotage	0	0
April	4/2/2016	11:08 AM	4/2/2016	11:33 AM	California	WECC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	360	0
April	4/12/2016	11:30 AM	4/12/2016	4:43 PM	Washington: Pend Oreille County	WECC	Suspected Cyber Attack	Cyber Attack	0	0
April	4/14/2016	4:49 PM	4/15/2016	8:42 PM	Maryland: Baltimore County	RFC	Suspected Physical Attack	Sabotage	0	0
April	4/15/2016	10:00 AM	4/15/2016	11:00 AM	Utah: Weber County	WECC	Suspected Physical Attack	Vandalism	0	0

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April	4/18/2016	5:05 AM	4/20/2016	7:55 AM	Texas: Harris County	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	415103
April	4/27/2016	1:36 PM	Unknown	Unknown	Tennessee	SERC	Suspected Physical Attack	Vandalism	0	0
April	4/27/2016	5:50 AM	4/28/2016	1:35 AM	Texas: Harris County	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	214864
April	4/27/2016	6:00 PM	4/27/2016	6:05 PM	Texas: Rusk County	TRE	Suspected Physical Attack	Sabotage	0	0
May	5/7/2016	7:49 AM	5/7/2016	9:02 AM	New York: Dutchess County;	NPCC	Suspected Physical Attack	Sabotage	0	0
May	5/8/2016	9:12 AM	Unknown	Unknown	Washington: Clark County;	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	Unknown	Unknown
May	5/10/2016	8:45 PM	5/13/2016	3:00 AM	Texas: Dallas County, Tarrant County, Parker County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Distribution Interruption	Unknown	85000
May	5/14/2016	9:25 PM	5/15/2016	5:24 PM	Missouri:	SERC	Suspected Physical Attack	Sabotage	0	0
May	5/19/2016	9:36 PM	5/20/2016	1:00 AM	Utah:	WECC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	461	85179
May	5/20/2016	12:00 AM	5/22/2016	5:00 AM	Louisiana:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Distribution Interruption	Unknown	85000
May	5/20/2016	1:15 AM	Unknown	Unknown	Louisiana:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	Unknown	57184
May	5/24/2016	8:00 AM	Unknown	Unknown	Missouri:	SERC	Suspected Physical Attack	Vandalism	0	0
May	5/26/2016	9:29 PM	5/27/2016	12:40 AM	New York:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Transmission Interruption	82	56645
May	5/31/2016	7:30 AM	6/13/2016	7:27 AM	New York: Tompkins County;	NPCC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	150	Unknown
June	6/7/2016	12:00 PM	6/7/2016	12:15 PM	Utah	WECC	Suspected Physical Attack	Sabotage	0	0
June	6/14/2016	7:59 AM	6/14/2016	8:00 AM	New Jersey	RFC	Suspected Physical Attack	Vandalism	0	0
June	6/17/2016	3:40 PM	6/18/2016	8:34 AM	Georgia, Alabama, Mississippi, Florida	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather	304	91260

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June	6/17/2016	4:30 AM	6/17/2016	4:31 AM	Delaware	RFC	Suspected Physical Attack	Vandalism	0	0
July	7/2/2016	4:00 AM	7/4/2016	12:40 AM	Oregon: Multnomah County	WECC	Suspected Physical Attack	Actual Physical Event	0	0
July	7/5/2016	2:45 AM	7/6/2016	3:00 AM	Texas: Dallas County, Tarrant County	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	52000
July	7/5/2016	5:30 PM	7/6/2016	4:00 PM	Minnesota, Wisconsin	MRO	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	250000
July	7/7/2016	4:20 AM	7/7/2016	8:00 AM	Kansas: Johnson County; Missouri: Jackson County, Platte County, Cass County, Buchanan County, Atchison County, Andrew County, Clay County, Nodaway County	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	58500
July	7/7/2016	5:53 AM	7/7/2016	8:40 AM	North Carolina: New Hanover County	SERC	Actual Physical Attack	Vandalism	0	0
July	7/8/2016	8:50 PM	7/9/2016	7:25 PM	North Carolina	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	600	203345
July	7/8/2016	7:00 PM	7/9/2016	12:00 AM	Michigan: Wayne County, Oakland County, Macomb County, St. Clair County, Lapeer County, Tuscola County, Sanilac County, Huron County	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	160895
July	7/8/2016	6:00 PM	Unknown	Unknown	West Virginia: Virginia	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	62961
July	7/9/2016	5:45 PM	7/11/2016	2:00 PM	Texas: Dallas County	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	62000
July	7/12/2016	2:10 PM	7/12/2016	8:33 PM	Puerto Rico	PR	Voltage Reduction	System Operations	450	218000
July	7/13/2016	1:00 PM	7/13/2016	1:01 PM	Washington	WECC	Suspected Physical Attack	Vandalism	0	0
July	7/13/2016	3:00 PM	Unknown	Unknown	Tennessee: Shelby County	SERC	Public Appeal	System Operations	Unknown	Unknown
July	7/14/2016	5:30 PM	7/16/2016	8:00 PM	Oklahoma: Arkansas	SPP	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	7300
July	7/14/2016	4:30 PM	7/16/2016	12:00 AM	Arkansas: Louisiana; Mississippi: Texas	SPP, SERC, TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	170244

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July	7/14/2016	2:44 PM	7/15/2016	4:00 AM	Oklahoma	SPP	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	96966
July	7/19/2016	3:45 PM	7/19/2016	7:29 PM	Idaho	WECC	Islanding, Uncontrolled Loss 300+ MW	System Operations	290	Unknown
July	7/19/2016	3:45 PM	7/19/2016	7:25 PM	Idaho	WECC	Islanding, Uncontrolled Loss 300+ MW	System Operations	485	Unknown
July	7/21/2016	7:21 PM	7/22/2016	12:09 AM	Puerto Rico	PR	Load Shed 100+ MW, Voltage Reduction	System Operations	200	266000
July	7/21/2016	6:18 AM	7/21/2016	2:45 PM	Delaware: New Castle County	RFC	Suspected Physical Attack	Suspicious Activity	0	0
July	7/22/2016	11:50 PM	7/23/2016	9:10 AM	Massachusetts: Connecticut: Rhode Island: New Hampshire: Vermont: Maine	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	57058
July	7/23/2016	3:15 PM	7/23/2016	7:53 PM	Pennsylvania: Cambria County	RFC	Voltage Reduction	System Operations	87	Unknown
July	7/23/2016	7:30 PM	7/24/2016	7:30 AM	Connecticut: Massachusetts: New Hampshire: Vermont: Rhode Island	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	101073
July	7/25/2016	6:51 PM	7/26/2016	2:19 AM	Puerto Rico	PR	Voltage Reduction	System Operations	0	0
July	7/26/2016	6:51 PM	7/27/2016	1:45 AM	Puerto Rico	PR	Voltage Reduction	System Operations	25	37100
July	7/27/2016	6:50 PM	7/28/2016	1:38 AM	Puerto Rico	PR	Voltage Reduction	System Operations	80	106300
July	7/28/2016	6:51 PM	7/29/2016	2:02 AM	Puerto Rico	PR	Voltage Reduction	System Operations	22	21600
July	7/29/2016	7:09 PM	7/29/2016	7:57 PM	Puerto Rico	PR	Voltage Reduction	System Operations	0	0
August	8/4/2016	2:15 PM	8/4/2016	2:23 PM	Delaware: New Castle County;	RFC	Suspected Physical Attack	Vandalism	0	0
August	8/7/2016	6:39 PM	8/7/2016	8:27 PM	New Mexico: Bernalillo County;	WECC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	Unknown	Unknown
August	8/10/2016	6:00 AM	Unknown	Unknown	California: Butte County;	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	0	0
August	8/11/2016	4:30 PM	8/11/2016	7:15 PM	Ohio:	RFC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	62140
August	8/13/2016	11:42 AM	8/13/2016	2:07 PM	South Carolina:	SERC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	506	0

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August	8/20/2016	2:18 PM	8/20/2016	9:19 PM	New York:	NPCC	Actual Physical Attack	Actual Physical Event	Unknown	40000
August	8/23/2016	5:00 PM	8/24/2016	12:05 AM	Texas: Harris County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	72200
August	8/24/2016	6:13 PM	8/24/2016	7:14 PM	Puerto Rico:	PR	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	System Operations	600	400000
August	8/24/2016	7:18 PM	8/24/2016	7:47 PM	Washington: King County;	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	9232	Unknown
August	8/25/2016	6:40 PM	8/26/2016	6:19 PM	Oregon: Crook County;	WECC	Suspected Physical Attack	Vandalism	0	0
August	8/31/2016	9:45 AM	8/31/2016	9:55 AM	Colorado:	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Transmission Interruption	0	0
August	8/31/2016	2:52 PM	Unknown	Unknown	Washington: Clark County;	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	0	0
September	9/1/2016	10:00 PM	Unknown	Unknown	Florida:	FRCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	100	Unknown
September	9/2/2016	12:40 AM	9/4/2016	8:00 PM	Florida: Leon County, Wakulla County;	FRCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	450	75000

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September	9/2/2016	4:00 AM	9/2/2016	4:00 PM	Florida: Alachua County, Bay County, Citrus County, Columbia County, Dixie County, Franklin County, Gilchrist County, Gulf County, Hamilton County, Hardee County, Hernando County, Highlands County, Jefferson County, Lafayette County, Lake County, Levy County, Madison County, Marion County, Orange County, Osceola County, Pasco County, Pinellas County, Polk County, Seminole County, Sumter County, Suwannee County, Taylor County, Volusia County, Wakulla County;	FRCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	225	90000
September	9/2/2016	5:45 AM	9/3/2016	12:30 AM	Georgia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	57000
September	9/6/2016	6:12 PM	9/6/2016	9:24 PM	Washington: Clark County;	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	300	Unknown
September	9/8/2016	8:30 AM	9/25/2016	12:00 AM	New York: Tompkins County;	NPCC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	210	Unknown
September	9/8/2016	2:49 PM	9/8/2016	3:03 PM	Washington:	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	0	0
September	9/10/2016	9:42 AM	9/10/2016	9:57 AM	Washington: Clark County;	WECC	Load shedding of 100 Megawatts or more implemented under emergency operational policy	Generation Inadequacy	135	Unknown

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September	9/11/2016	12:05 PM	9/11/2016	3:10 PM	Connecticut: Massachusetts: New Hampshire: Rhode Island: Vermont: Maine:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	57960
September	9/12/2016	12:30 PM	9/12/2016	5:56 PM	New Mexico: Bernalillo County, Sandoval County, Santa Fe County, Valencia County;	WECC	Load shedding of 100 Megawatts or more implemented under emergency operational policy	Generation Inadequacy	110	53753
September	9/21/2016	2:30 PM	9/24/2016	2:30 AM	Puerto Rico:		Complete operational failure or shut-down of the transmission and/or distribution electrical system	System Operations	2750	1475000
September	9/21/2016	7:44 PM	9/21/2016	9:17 PM	Texas: Lubbock County;	TRE	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Actual Physical Event	0	0
September	9/22/2016	10:56 AM	9/22/2016	11:41 AM	Iowa: Black Hawk County;	MRO	Complete operational failure or shut-down of the transmission and/or distribution electrical system	System Operations	69	19124
September	9/25/2016	12:49 PM	9/25/2016	6:20 PM	Utah: Kane County, Garfield County; Arizona: Coconino County, Mohave County	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	20	10000
October	10/01/2016	12:24 PM	10/02/2016	2:04 AM	California: Mendocino County;	WECC	Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations	Actual Physical Event	0	0
October	10/02/2016	11:30 PM	10/05/2016	8:00 AM	Utah:	WECC	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Transmission Interruption	50	4000
October	10/03/2016	3:09 PM	10/04/2016	7:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Public Appeal	Unknown	Unknown

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October	10/05/2016	11:32 AM	10/05/2016	7:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Public Appeal	Unknown	Unknown
October	10/05/2016	3:51 PM	Unknown	Unknown	California: Imperial County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
October	10/06/2016	9:50 AM	10/06/2016	7:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Public Appeal	Unknown	Unknown
October	10/06/2016	7:30 PM	10/8/2016	6:00 PM	Florida:	FRCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	5600	1200000
October	10/07/2016	8:00 AM	10/09/2016	1:00 PM	Florida: Alachua County, Bay County, Citrus County	FRCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	413	165000
October	10/07/2016	11:08 AM	10/07/2016	7:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Generation Inadequacy	Unknown	Unknown
October	10/07/2016	4:22 PM	10/12/2016	11:00 AM	Georgia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	122	36384
October	10/07/2016	10:45 PM	Unknown	Unknown	Florida:	FRCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	Unknown

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October	10/07/2016	11:00 PM	Unknown	Unknown	South Carolina: Allendale County, Bamberg County, Beaufort County, Berkeley County, Charleston County, Chesterfield County, Clarendon County, Colleton County, Darlington County, Dorchester County, Florence County, Georgetown County, Hampton County, Horry County, Jasper County, Kershaw County, Lee County, Marion County, Marlboro County, Orangeburg County, Richland County, Sumter County, Williamsburg County;	SERC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	Unknown
October	10/08/2016	8:21 AM	10/13/2016	5:30 PM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	Unknown	Unknown
October	10/08/2016	2:05 PM	10/09/2016	6:06 AM	North Carolina:	SERC	Uncontrolled loss of 300 Megawatts or more of firm system loads for more than 15 minutes from a single incident	Severe Weather	Unknown	44875
October	10/08/2016	1:10 AM	Unknown	Unknown	South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more	Severe Weather	1050	290824
October	10/10/2016	1:15 PM	10/10/2016	7:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the electric power system	Generation Inadequacy	Unknown	Unknown
October	10/12/2016	12:09 PM	10/12/2016	1:16 PM	Nevada: Clark County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	4	1671

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October	10/18/2016	2:06 PM	10/21/2016	3:00 PM	Oregon: Deschutes County, Lake County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
October	10/20/2016	12:30 PM	10/20/2016	12:31 PM	Oregon:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
October	10/25/2016	7:40 AM	10/27/2016	7:40 AM	Tennessee: Shelby County;	SERC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
October	10/26/2016	5:26 AM	10/26/2016	5:27 AM	Wyoming: Sweetwater County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
October	10/28/2016	1:29 PM	10/28/2016	1:38 PM	California: Plumas County;	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Islanding	4	482
October	10/31/2016	8:06 AM	10/31/2016	3:53 PM	North Carolina: Stokes County;	SERC	Physical attack that causes major interruptions or impacts to critical infrastructure facilities or to operations	Actual Physical Event	0	0
November	11/09/2016	11:59 AM	11/09/2016	6:15 PM	California: Stanislaus County, San Joaquin County, Alameda County, Tuolumne County;	WECC	Cyber event that could potentially impact electric power system adequacy or reliability	Cyber Attack	0	0

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Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
November	11/09/2016	6:44 AM	11/09/2016	7:44 AM	California:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
November	11/01/2016	8:55 PM	Unknown	Unknown	Washington: Clark County;	WECC	Electrical System Separation (Islanding) where part or parts of a power grid remain(s) operational in an otherwise blacked out area or within the partial failure of an integrated electrical system	Transmission Interruption	0	0
December	12/08/2016	1:00 AM	12/08/2016	2:30 AM	Oregon: Multnomah County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
December	12/11/2016	7:45 AM	12/11/2016	7:46 AM	Utah: Utah County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
December	12/13/2016	2:09 PM	12/13/2016	2:30 PM	California: Riverside County;	WECC	Cyber event that could potentially impact electric power system adequacy or reliability	Cyber Event	0	0
December	12/15/2016	6:30 AM	Unknown	Unknown	California: Merced County;	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	Unknown	Unknown
December	12/16/2016	7:45 AM	12/16/2016	8:45 AM	Oregon: Multnomah County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0
December	12/26/2016	4:00 AM	12/26/2016	6:00 AM	Washington:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems	Vandalism	0	0

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Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
December	12/28/2016	4:03 AM	12/31/2016	6:00 AM	California:	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability	Fuel Supply Deficiency	0	0
December	12/30/2016	8:55 AM	12/30/2016	8:56 AM	Vermont: Chittenden County;	NPCC	Cyber event that could potentially impact electric power system adequacy or reliability	Other	0	0
December	12/30/2016	2:30 AM	12/30/2016	7:00 PM	Maine:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more	Weather or Natural Disaster	Unknown	85263