

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

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	01/05/2019	1:19 PM	01/05/2019	3:07 PM	Washington:	WECC	Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability affecting its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	Unknown
January	01/06/2019	3:00 AM	01/09/2019	7:00 AM	Washington:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	230	230000
January	01/06/2019	5:56 PM	01/06/2019	9:52 PM	California: Sacramento County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	300	90382
January	01/06/2019	1:00 AM	01/06/2019	12:00 PM	Washington: King County, Thurston County, Pierce County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	230000
January	01/07/2019	8:57 PM	01/07/2019	9:32 PM	Michigan:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/09/2019	11:55 AM	01/09/2019	11:56 AM	New Mexico: San Juan County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
January	01/10/2019	12:19 PM	01/10/2019	12:48 PM	Montana: Valley County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	System Operations	11	2
January	01/11/2019	11:36 AM	01/11/2019	12:43 PM	Maine:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/12/2019	11:30 AM	01/13/2019	10:00 PM	Missouri: Jackson County; Kansas: Johnson County;	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	112530
January	01/12/2019	11:30 AM	Unknown	Unknown	Missouri: Nebraska:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	116600
January	01/12/2019	7:20 PM	01/12/2019	9:38 PM	New Hampshire:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/13/2019	5:30 AM	01/15/2019	5:00 PM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	133200	Unknown
January	01/14/2019	11:10 AM	Unknown	Unknown	Michigan:	RF	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Actual Physical Attack	Unknown	Unknown

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January	01/15/2019	8:00 AM	01/15/2019	8:02 AM	Pennsylvania:	RF	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
January	01/16/2019	5:26 PM	01/17/2019	12:19 PM	California:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	190	126700
January	01/16/2019	5:19 AM	01/16/2019	7:14 AM	Texas: Nueces County;	TRE	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/18/2019	9:54 PM	01/19/2019	12:19 AM	Nebraska:	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	8	Unknown
January	01/23/2019	7:26 AM	01/23/2019	5:05 PM	Colorado: Larimer County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	System Operations	0	0
January	01/24/2019	4:39 AM	01/24/2019	5:16 AM	Ohio:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/28/2019	1:35 PM	01/28/2019	1:40 PM	Utah: Iron County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Actual Physical Attack	0	0
January	01/29/2019	6:34 PM	01/29/2019	6:36 PM	Louisiana: Washington Parish;	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	Unknown	Unknown
January	01/30/2019	4:30 PM	Unknown	Unknown	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
January	01/30/2019	4:23 AM	02/02/2019	9:00 AM	Illinois: Scott County;	SERC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	Unknown	Unknown
January	01/30/2019	9:30 AM	01/31/2019	6:00 PM	Michigan:	RF	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.	Severe Weather	Unknown	Unknown

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January	01/30/2019	7:00 AM	01/30/2019	8:08 AM	Illinois: Pike County;	SERC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Severe Weather	Unknown	Unknown
January	01/31/2019	9:33 PM	01/31/2019	9:34 PM	California:	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
February	02/01/2019	11:57 PM	02/02/2019	8:49 AM	Nevada	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	1
February	02/01/2019	5:35 AM	02/01/2019	6:10 AM	Massachusetts	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
February	02/02/2019	10:28 AM	02/02/2019	10:29 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
February	02/05/2019	6:17 PM	02/05/2019	8:26 PM	California	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Severe Weather	42	33200
February	02/07/2019	7:39 AM	02/07/2019	7:40 AM	Arkansas	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	3	3370
February	02/07/2019	8:55 AM	02/09/2019	4:30 PM	Michigan	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	233000
February	02/08/2019	10:00 AM	02/08/2019	10:30 AM	Pennsylvania	RF	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0
February	02/08/2019	6:30 PM	Unknown	Unknown	Washington	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	50940
February	02/13/2019	2:48 AM	02/15/2019	12:28 AM	California	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	182	121000
February	02/14/2019	8:50 AM	02/14/2019	12:10 PM	New Jersey	RF	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0

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February	02/14/2019	12:15 PM	02/14/2019	12:16 PM	Utah	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
February	02/19/2019	9:45 AM	Unknown	Unknown	Texas	TRE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
February	02/20/2019	12:50 PM	02/20/2019	1:32 PM	Wisconsin, Minnesota, Iowa, Illinois	MRO	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	740	0
February	02/23/2019	2:05 PM	Unknown	Unknown	Virginia	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	Unknown	Unknown
February	02/24/2019	6:00 PM	02/25/2019	10:00 PM	Pennsylvania	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	132000
February	02/24/2019	11:21 AM	02/26/2019	5:29 PM	Ohio, Virginia, West Virginia	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	118781
February	02/24/2019	6:47 PM	02/25/2019	1:55 PM	Pennsylvania	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	137216
February	02/24/2019	12:31 PM	02/24/2019	2:57 PM	Ohio	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	157274
February	02/24/2019	2:33 PM	02/24/2019	6:03 PM	Pennsylvania	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	94048
February	02/24/2019	8:02 PM	02/25/2019	2:30 PM	Michigan	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	115000
February	02/25/2019	7:45 AM	02/25/2019	6:40 PM	Massachusetts	NPCC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
February	02/25/2019	1:35 PM	02/26/2019	2:50 AM	Connecticut, Massachusetts, New Hampshire, Maine, Vermont, Rhode Island	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	72332
February	02/27/2019	11:25 AM	02/27/2019	5:39 PM	Iowa	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0

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February	02/27/2019	9:35 PM	02/27/2019	9:45 PM	South Carolina	SERC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
February	02/28/2019	7:02 AM	02/28/2019	7:33 AM	Oklahoma, Arkansas, Louisiana	SPP RE	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
March	03/04/2019	11:39 AM	03/08/2019	4:52 PM	Oklahoma:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
March	03/05/2019	9:12 AM	03/05/2019	6:57 PM	California: Kern County, Los Angeles County; Utah: Salt Lake County; Wyoming: Converse County;	WECC	Cyber event that causes interruptions of electrical system operations.	System Operations	0	0
March	03/13/2019	3:51 PM	03/16/2019	6:00 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	50	54290
March	03/13/2019	11:29 AM	03/14/2019	9:11 PM	Colorado: Jefferson County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	58	58379
March	03/13/2019	5:50 AM	03/13/2019	10:30 AM	Texas: Midland County, Ector County, Tarrant County, Dallas County, Wichita County, Brown County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	154124
March	03/13/2019	3:00 PM	03/14/2019	12:00 AM	Texas: Kansas: Oklahoma:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	Unknown	66000
March	03/13/2019	6:12 AM	03/13/2019	6:13 AM	California: Los Angeles County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
March	03/19/2019	10:53 PM	03/19/2019	10:54 PM	Oklahoma:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
March	03/21/2019	10:00 AM	03/21/2019	10:05 AM	Utah: Salt 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
March	03/25/2019	7:47 AM	03/25/2019	7:48 AM	Oregon: Lane County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Actual Physical Attack	5	Unknown
March	03/29/2019	11:36 PM	03/30/2019	2:00 AM	California: San Diego County, Los Angeles County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Suspicious Activity	0	0

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April	04/01/2019	2:15 PM	04/06/2019	5:20 PM	Nevada: Carson City, Consolidated Municipality of[19], Washoe County, Churchill County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Actual Physical Attack	0	0
April	04/01/2019	6:51 AM	04/01/2019	7:53 AM	New York: Broome County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/01/2019	6:51 AM	04/01/2019	7:53 AM	New York: Monroe County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/02/2019	8:33 AM	04/02/2019	9:00 AM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/02/2019	10:15 AM	04/02/2019	10:16 AM	Utah: Salt 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
April	04/03/2019	5:15 AM	04/03/2019	12:39 PM	California: Fresno County;	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	0	0
April	04/04/2019	10:13 AM	04/04/2019	12:08 PM	Montana:	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/07/2019	1:46 PM	04/08/2019	5:50 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	537	231956
April	04/10/2019	11:59 AM	04/10/2019	12:00 PM	Virginia:	SERC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
April	04/11/2019	7:48 PM	04/11/2019	8:00 PM	Oregon: Washington:	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0

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April	04/12/2019	11:20 AM	04/12/2019	12:46 PM	Minnesota: Martin County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/13/2019	6:15 PM	04/13/2019	11:15 PM	Mississippi: Arkansas: Texas: Louisiana:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	60467
April	04/15/2019	4:35 AM	04/15/2019	2:40 PM	Virginia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	75290
April	04/15/2019	10:00 AM	04/15/2019	2:00 PM	Minnesota:	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/16/2019	10:30 AM	04/16/2019	11:00 AM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/17/2019	7:38 PM	04/17/2019	11:52 PM	Arizona:	WECC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/18/2019	8:08 PM	04/19/2019	11:00 AM	Colorado: Clear Creek County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/18/2019	7:55 PM	04/19/2019	5:29 PM	Alabama: Mississippi: Georgia: Florida:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	116	34695
April	04/21/2019	10:40 AM	04/21/2019	10:45 AM	Utah: Salt Lake County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/25/2019	6:03 PM	04/25/2019	6:32 PM	Arizona: Maricopa County;	WECC	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.	Generation Inadequacy	150	51366
April	04/26/2019	1:00 AM	04/26/2019	1:27 PM	Pennsylvania:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	7	5830
April	04/26/2019	5:46 PM	04/27/2019	11:49 AM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	54071

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April	04/26/2019	3:16 PM	04/26/2019	3:17 PM	Massachusetts: Hampden County[13];	NPCC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	0	0
April	04/28/2019	1:40 PM	04/28/2019	2:49 PM	South Carolina:	SERC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/28/2019	10:43 AM	04/29/2019	2:06 AM	Ohio:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/29/2019	5:17 PM	04/30/2019	9:22 AM	Virginia: Surry County;	SERC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/30/2019	12:25 PM	04/30/2019	1:11 PM	Indiana:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
May	05/08/2019	9:22 AM	05/08/2019	9:56 AM	Pennsylvania: Mercer County;	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	29	1
May	05/08/2019	3:50 PM	05/13/2019	12:00 AM	Louisiana: Texas:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Distribution Interruption	Unknown	65844
May	05/09/2019	5:55 PM	05/11/2019	8:50 PM	Texas: Harris County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	691	238015
May	05/09/2019	7:06 PM	05/10/2019	2:57 AM	Texas: Harris County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	0	0
May	05/10/2019	2:00 AM	05/10/2019	12:15 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	61008
May	05/11/2019	2:08 PM	05/11/2019	3:00 PM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0

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May	05/15/2019	12:10 PM	05/15/2019	12:11 PM	West Virginia:	RF	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	Unknown	Unknown
May	05/18/2019	3:45 PM	05/20/2019	4:00 AM	Texas: Ector County, Midland County, Tarrant County, Dallas County, Stephens County, Anderson County, McLennan County, Ellis County, Hunt County, Young County, Bell County, Limestone County, Collin County, Rockwall County, Henderson County, Parker County, Falls County, Freestone County, Kaufman County, Grayson County, Smith County:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	68000
May	05/18/2019	1:55 AM	05/18/2019	3:06 PM	Colorado: Wyoming: Nebraska: Utah: Daggett County; New Mexico:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	30	0
May	05/23/2019	4:55 PM	05/23/2019	11:40 PM	Virginia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	100000
May	05/23/2019	1:11 AM	05/23/2019	12:00 PM	Indiana:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	0	0
May	05/24/2019	7:28 AM	05/24/2019	8:30 AM	Kentucky: Shelby County;	SERC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
May	05/24/2019	8:09 PM	05/25/2019	2:23 PM	North Dakota: Minnesota:	MRO	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
May	05/24/2019	9:47 PM	05/24/2019	11:58 PM	California:	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system	Severe Weather	20	10961

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May	05/27/2019	10:07 PM	05/28/2019	3:00 AM	Ohio: Montgomery County, Darke County, Mercer County, Miami County, Greene County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	347	70000
June	06/02/2019	6:19 PM	06/02/2019	8:43 PM	California:	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Severe Weather/Transmission Interruption	Unknown	Unknown
June	06/04/2019	10:15 AM	06/04/2019	1:15 PM	Nevada: Washoe County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
June	06/05/2019	8:37 AM	06/05/2019	8:40 AM	Idaho: Bannock County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0
June	06/05/2019	10:16 AM	06/05/2019	10:17 AM	South Dakota: Lincoln County;	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/05/2019	9:46 AM	06/05/2019	12:00 PM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/06/2019	6:09 PM	06/06/2019	6:35 PM	Texas: Bexar County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	55017
June	06/07/2019	2:43 PM	06/07/2019	4:20 PM	Texas: Pecos County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	8	1
June	06/08/2019	3:50 PM	06/08/2019	7:40 PM	Texas: Potter County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
June	06/09/2019	2:45 PM	06/13/2019	10:30 PM	Texas: Collin County, Dallas County, Denton County, Palo Pinto County, Tarrant County, Ellis County, Williamson County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	558000

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June	06/11/2019	3:11 PM	06/11/2019	5:00 PM	North Dakota: Mountrail County, Williams County;	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/11/2019	7:52 AM	06/11/2019	7:53 AM	Utah:	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
June	06/12/2019	2:56 PM	06/12/2019	3:50 PM	California: Imperial County, Riverside County;	WECC	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.	Generation Inadequacy	982	30907
June	06/16/2019	2:00 AM	06/17/2019	11:59 PM	Texas: Dallas County, Tarrant County, Collin County, Denton County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	340000
June	06/16/2019	3:25 AM	Unknown	Unknown	Oklahoma:	SPP RE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	Unknown	Unknown
June	06/18/2019	6:21 AM	06/18/2019	6:40 AM	Washington: Grant County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
June	06/19/2019	11:00 AM	06/19/2019	11:01 AM	Oklahoma:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/19/2019	10:30 PM	06/20/2019	7:00 PM	Arkansas:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	82045
June	06/19/2019	3:00 PM	Unknown	Unknown	Nevada: Clark County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/20/2019	4:11 PM	06/21/2019	12:45 PM	Virginia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	60000
June	06/21/2019	6:36 PM	06/21/2019	7:27 PM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
June	06/21/2019	7:15 PM	Unknown	Unknown	Kentucky: Tennessee:	SERC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Severe Weather	Unknown	50000

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June	06/21/2019	10:00 AM	06/21/2019	11:00 AM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/22/2019	8:46 PM	06/23/2019	12:30 AM	Alabama: Georgia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	115	34637
June	06/23/2019	10:00 PM	06/25/2019	11:00 PM	Texas: Dallas County, Denton County, Ellis County, Collin County, Ellis County, Hood County, Johnson County, Kaufman County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	265000
June	06/23/2019	5:13 AM	06/23/2019	10:58 AM	Arkansas:	SPP RE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	47	16199
June	06/24/2019	9:40 AM	06/24/2019	3:17 PM	Oklahoma: Oklahoma County;	SPP RE	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
June	06/24/2019	5:30 AM	06/24/2019	8:45 AM	Arkansas:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	56451
June	06/26/2019	1:58 PM	06/26/2019	2:03 PM	North Dakota: Williams County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	53	0
June	06/28/2019	2:25 PM	Unknown	Unknown	Idaho: Nez Perce County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
June	06/30/2019	3:15 PM	06/30/2019	4:15 PM	New York: Nassau County, Suffolk County;	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	3189	52498
June	06/30/2019	3:30 PM	06/30/2019	8:30 PM	Illinois: Cook County, DeKalb County, DuPage County, Grundy County, Iroquois County, Ford County, Lake County, Kendall County, Kankakee County, Kane County, Ogle County;	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	100000
July	07/02/2019	1:00 PM	07/02/2019	1:22 PM	Idaho: Ada County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0

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July	07/06/2019	10:00 PM	07/07/2019	1:57 PM	Mississippi: Panola County;	SERC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	Unknown	3000
July	07/09/2019	1:59 AM	07/09/2019	3:50 PM	Texas: Louisiana: Arkansas: Mississippi:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
July	07/10/2019	12:10 PM	07/12/2019	12:30 PM	Texas: Collin County, Dallas County, Denton County, Hood County, Johnson County, Tarrant County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	57000
July	07/10/2019	12:00 PM	07/10/2019	12:15 PM	Utah: Salt Lake County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
July	07/11/2019	11:08 AM	07/11/2019	11:13 AM	Texas: Lynn County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	26	2043
July	07/13/2019	11:55 PM	07/14/2019	1:00 PM	Louisiana: Acadia Parish, Avoyelles Parish, Catahoula Parish, Evangeline Parish, Grant Parish, Iberia Parish, LaSalle Parish, Natchitoches Parish, Rapides Parish, Sabine Parish, St. Landry Parish, St. Martin Parish, St. Mary Parish, St. Tammany Parish, Allen Parish, Beauregard Parish, Calcasieu Parish, Vermilion Parish, De Soto Parish, Jefferson Davis Parish, Red River Parish, Tangipahoa Parish, Vernon Parish, Washington Parish;	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	63000
July	07/13/2019	7:15 AM	07/14/2019	5:00 PM	Louisiana:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	55730
July	07/13/2019	6:47 PM	07/13/2019	11:37 PM	New York: New York County;	NPCC	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident	Transmission Interruption	452	72669
July	07/17/2019	2:12 PM	07/17/2019	2:30 PM	Oklahoma: Oklahoma County;	SPP RE	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0

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July	07/19/2019	7:00 PM	07/21/2019	8:00 PM	Michigan:	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	400000
July	07/19/2019	9:55 AM	07/19/2019	1:00 PM	Wisconsin: Dane County;	MRO	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	Unknown	Unknown
July	07/20/2019	7:37 AM	07/20/2019	9:20 AM	Missouri: Boone County;	SERC	Physical threat to its Bulk Electric System control center, excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the control center. Or suspicious device or activity at its Bulk Electric System control center.	Suspicious Activity	0	0
July	07/20/2019	11:55 AM	07/23/2019	12:00 AM	Wisconsin: Michigan:	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	200	50000
July	07/20/2019	3:00 AM	07/22/2019	7:00 AM	Michigan: Kent County, Newaygo County, Mecosta County, Montcalm County, Isabella County, Ionia County, Allegan County, Barry County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	160000
July	07/21/2019	11:00 PM	07/22/2019	8:54 PM	New York: Kings County, New York County, Queens County, Bronx County, Westchester County, Richmond County;	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	60	45000
July	07/22/2019	4:00 PM	07/24/2019	11:00 PM	Pennsylvania: Bucks County, Delaware County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	165000
July	07/22/2019	5:50 PM	07/25/2019	1:15 PM	New Jersey: Gloucester County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	49	95600
July	07/23/2019	11:55 PM	07/23/2019	11:56 PM	Nebraska:	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
July	07/23/2019	3:22 AM	07/23/2019	5:40 AM	California: Santa Cruz County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	25
July	07/23/2019	11:55 PM	07/24/2019	5:22 AM	Nebraska: Scotts Bluff County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
July	07/23/2019	3:39 PM	07/23/2019	7:00 PM	Massachusetts:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	54	54535

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July	07/24/2019	1:30 PM	07/24/2019	1:31 PM	Utah: Iron County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	1
July	07/24/2019	8:01 AM	07/24/2019	12:49 PM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
July	07/28/2019	6:48 PM	07/28/2019	7:18 PM	Michigan:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
July	07/30/2019	8:45 AM	07/30/2019	9:45 AM	Louisiana:	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	Unknown	13720
August	08/02/2019	6:24 PM	08/02/2019	7:28 PM	Washington: Clark County;	WECC	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
August	08/02/2019	1:49 AM	08/02/2019	1:55 AM	Minnesota: Chisago County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
August	08/05/2019	5:23 PM	08/06/2019	12:02 AM	Oregon: Umatilla County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	66	Unknown
August	08/07/2019	3:00 PM	08/07/2019	3:30 PM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
August	08/07/2019	8:40 AM	Unknown	Unknown	Washington: Pierce County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0
August	08/07/2019	9:30 AM	08/07/2019	11:15 AM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0

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August	08/08/2019	4:16 PM	08/08/2019	10:41 PM	Ohio:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	Unknown	5600
August	08/09/2019	9:53 AM	08/09/2019	10:46 AM	Texas: Travis County;	TRE	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
August	08/10/2019	4:11 PM	08/10/2019	4:46 PM	Michigan:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
August	08/10/2019	7:59 PM	08/10/2019	9:04 PM	Michigan:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
August	08/13/2019	10:00 AM	08/13/2019	11:00 AM	California: Placer County;	WECC	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident.	Vandalism	0	0
August	08/13/2019	12:00 AM	Unknown	Unknown	North Dakota: Mercer County;	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	Unknown
August	08/13/2019	3:10 PM	08/13/2019	5:30 PM	Texas: Williamson County;	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.	Severe Weather	Unknown	Unknown
August	08/15/2019	8:30 AM	Unknown	Unknown	New York: Tompkins County;	NPCC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	150	Unknown
August	08/15/2019	11:03 PM	08/16/2019	12:37 AM	California: Marin County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Distribution Interruption	80	61318
August	08/15/2019	11:00 AM	08/15/2019	3:30 PM	Kentucky: Ohio County;	SERC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
August	08/15/2019	3:11 PM	08/15/2019	6:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.	Severe Weather	Unknown	Unknown
August	08/15/2019	3:07 AM	08/15/2019	3:56 AM	District of Columbia: Maryland:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0

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August	08/18/2019	4:47 PM	08/18/2018	11:00 PM	Texas:	TRE	Uncontrolled loss of 300 Megawatts or more of firm system loads for 15 minutes or more from a single incident	Distribution Interruption	752	86373
August	08/18/2019	4:30 PM	08/18/2019	10:00 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Transmission Interruption/Distribution Interruption	259	61000
August	08/18/2019	3:59 PM	08/18/2019	11:00 PM	Louisiana: Texas:	SPP RE	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.	Transmission Interruption	271	86373
August	08/21/2019	7:56 AM	Unknown	Unknown	Ohio:	RF	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	1397
August	08/21/2019	3:30 PM	Unknown	Unknown	Massachusetts: Middlesex County[13];	NPCC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
August	08/24/2019	4:10 PM	08/24/2019	7:28 PM	Washington:	WECC	Cyber event that could potentially impact electric power system adequacy or reliability.	Suspicious Activity	0	0
August	08/25/2019	1:44 AM	08/25/2019	2:20 AM	Washington: King County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
August	08/26/2019	9:09 AM	08/26/2019	1:34 PM	North Dakota:	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
August	08/26/2019	7:00 PM	08/27/2019	3:00 AM	Oklahoma:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	Unknown	95000
August	08/26/2019	7:00 PM	08/29/2019	1:00 PM	Oklahoma:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	103779
August	08/29/2019	11:30 PM	08/30/2019	5:30 PM	Michigan:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
August	08/31/2019	3:05 PM	08/31/2019	3:46 PM	Pennsylvania: New Jersey:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
August	08/31/2019	4:00 PM	09/02/2019	6:00 AM	California: Calaveras County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0

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September	09/04/2019	2:30 PM	09/06/2019	6:00 PM	Texas:	TRE	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.	Severe Weather	Unknown	Unknown
September	09/04/2019	11:13 AM	09/04/2019	11:57 AM	Maryland: District of Columbia:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
September	09/05/2019	10:00 PM	09/06/2019	12:00 PM	North Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	3	2000
September	09/05/2019	10:36 PM	09/06/2019	4:00 PM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	116000
September	09/05/2019	4:15 AM	09/05/2019	3:17 PM	South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	172278
September	09/05/2019	10:08 AM	09/05/2019	12:08 PM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
September	09/06/2019	8:20 AM	Unknown	Unknown	North Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	77000
September	09/10/2019	9:22 PM	09/10/2019	9:23 PM	Wyoming: Sweetwater County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	885	0
September	09/11/2019	10:35 PM	09/11/2019	11:59 PM	Michigan: Ionia County, Kent County, Barry County, Montcalm County, Allegan County, Ottawa County, Newaygo County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	54000
September	09/13/2019	2:31 AM	09/16/2019	5:00 PM	Tennessee:	SERC	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
September	09/19/2019	6:40 PM	09/19/2019	6:46 PM	Minnesota: Washington County;	MRO	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0
September	09/19/2019	5:55 AM	09/19/2019	2:30 PM	Arizona: Pima County;	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	0	0
September	09/20/2019	12:21 AM	09/20/2019	12:04 PM	Oklahoma: Oklahoma County;	SPP RE	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0

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September	09/24/2019	3:56 PM	09/26/2019	7:25 PM	Washington: King County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
September	09/25/2019	5:25 PM	09/25/2019	6:16 PM	Wisconsin: Marathon County;	MRO	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
September	09/25/2019	3:47 AM	09/25/2019	3:40 PM	California: Napa County, Nevada County, Placer County, Plumas County, Sonoma County, Butte County, Yuba County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	25	69524
September	09/25/2019	9:59 AM	09/25/2019	10:00 AM	Texas:	TRE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	Unknown
September	09/26/2019	2:31 PM	09/26/2019	3:14 PM	Maryland: Baltimore County;	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
September	09/29/2019	7:38 AM	Unknown	Unknown	California: Alameda County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Distribution Interruption	Unknown	50072
September	09/30/2019	5:35 AM	09/30/2019	8:10 AM	Washington: King County;	WECC	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
September	09/30/2019	12:17 PM	09/30/2019	12:58 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.	Actual Physical Attack	3736	0
September	09/30/2019	10:53 AM	09/30/2019	10:54 AM	Idaho: Bonneville County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
October	10/03/2019	12:13 AM	10/03/2019	4:00 AM	Missouri: Reynolds County;	SERC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
October	10/04/2019	5:15 AM	Unknown	Unknown	California:	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	0	0
October	10/06/2019	5:15 AM	Unknown	Unknown	California:	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	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
October	10/06/2019	2:50 PM	10/06/2019	3:00 PM	Texas: Hidalgo County, Cameron County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	Unknown	Unknown
October	10/09/2019	12:27 AM	Unknown	Unknown	California:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	2400	737808
October	10/10/2019	2:06 AM	10/10/2019	5:05 AM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
October	10/10/2019	12:22 AM	10/10/2019	2:12 AM	Colorado: Jefferson County;	WECC	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
October	10/11/2019	10:56 AM	10/11/2019	11:46 AM	Michigan: Wayne County;	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
October	10/12/2019	3:00 PM	10/12/2019	4:21 PM	Texas:	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
October	10/15/2019	3:19 AM	10/15/2019	6:38 AM	Ohio:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
October	10/15/2019	7:57 PM	10/15/2019	8:44 PM	Kansas: Shawnee County;	SPP RE	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
October	10/16/2019	7:00 AM	Unknown	Unknown	Texas: Louisiana: Arkansas: Mississippi:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
October	10/17/2019	12:45 AM	10/19/2019	9:30 AM	Connecticut: Rhode Island: Massachusetts: Vermont: New Hampshire: Maine:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	101683
October	10/19/2019	5:57 AM	10/19/2019	1:58 PM	South Dakota: Codington County; Nebraska: Scotts Bluff County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	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
October	10/19/2019	2:00 PM	10/19/2019	9:07 PM	California: Imperial County;	WECC	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
October	10/20/2019	10:15 PM	10/25/2019	2:00 AM	Texas: Cass County, Cameron County, Collin County, Dallas County, Ellis County, Erath County, Hunt County, Kaufman County, Lamar County, Panola County, Rains County, Rockwall County, Rusk County, Tarrant County, Van Zandt County, Wood County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	400000
October	10/23/2019	12:49 AM	10/23/2019	4:05 AM	New York: Monroe County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
October	10/23/2019	12:49 AM	10/23/2019	4:05 AM	New York: Broome County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
October	10/23/2019	2:36 PM	Unknown	Unknown	California:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	Unknown	50000
October	10/24/2019	5:02 PM	10/24/2019	5:09 PM	Ohio: Lorain County;	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
October	10/24/2019	5:15 AM	Unknown	Unknown	California:	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	0	0
October	10/25/2019	2:53 AM	10/25/2019	4:37 AM	South Carolina: Cherokee County;	SERC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
October	10/26/2019	6:20 PM	10/31/2019	1:27 AM	California:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	3190	972000
October	10/26/2019	8:07 AM	10/26/2019	8:45 AM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
October	10/26/2019	5:15 AM	10/26/2019	5:31 PM	Louisiana:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	82124

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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
October	10/26/2019	6:00 PM	Unknown	Unknown	Tennessee:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	70000
October	10/29/2019	1:46 PM	10/29/2019	2:49 PM	Wisconsin: Brown County, Manitowoc County, Calumet County, Winnebago County, Kewaunee County, Door County, Oconto County, Marinette County, Forest County, Langlade County, Oneida County, Vilas County, Lincoln County, Oneida County, Portage County;	MRO	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
October	10/30/2019	6:32 AM	11/01/2019	1:29 PM	California: Los Angeles County, Orange County, Riverside County, San Bernardino County, Ventura County, Kern County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Distribution Interruption	285	114402
October	10/31/2019	10:00 PM	Unknown	Unknown	Pennsylvania:	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Distribution Interruption	Unknown	53943
November	11/01/2019	11:45 PM	11/02/2019	12:48 AM	New York: Broome County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
November	11/01/2019	11:45 PM	11/02/2019	12:48 AM	New York: Monroe County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
November	11/01/2019	1:00 AM	11/03/2019	1:00 PM	New York:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	8000
November	11/01/2019	1:15 AM	11/02/2019	9:30 PM	Connecticut: Maine: Massachusetts: Rhode Island: New Hampshire: Vermont:	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	80066
November	11/01/2019	2:41 AM	Unknown	Unknown	New York: Broome County;	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	66325
November	11/03/2019	10:17 PM	11/04/2019	11:10 AM	Minnesota: Sherburne County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
November	11/05/2019	8:56 AM	11/05/2019	11:51 AM	Florida: Duval County;	FRCC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	1500	Unknown

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November	11/05/2019	8:30 AM	11/05/2019	4:16 PM	Indiana:	RF	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
November	11/05/2019	3:40 PM	11/05/2019	5:11 PM	Idaho: Elmore County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	131
November	11/08/2019	5:50 AM	11/08/2019	6:10 AM	Utah: California: Oregon: Wyoming:	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	System Operations	72	Unknown
November	11/16/2019	4:11 PM	11/16/2019	5:01 PM	Oregon: Lane County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
November	11/16/2019	6:00 AM	11/16/2019	5:45 PM	Texas: New York: Dutchess County;	TRE	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
November	11/20/2019	9:49 AM	11/20/2019	3:20 PM	California: Colusa County, Lake County, Mendocino County, Napa County, Solano County, Sonoma County, Yolo County, Shasta County, Tehama County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	178	54000
November	11/20/2019	4:55 PM	11/20/2019	5:37 PM	California: Imperial County;	WECC	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
November	11/22/2019	12:00 AM	11/22/2019	1:10 AM	New York: Broome County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
November	11/22/2019	12:00 AM	11/22/2019	1:10 AM	New York: Monroe County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
November	11/26/2019	6:07 PM	11/27/2019	12:27 PM	California:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	300	93000
November	11/27/2019	2:44 AM	11/27/2019	4:00 PM	California: Santa Clara County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	35	2

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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	11/27/2019	12:00 PM	11/30/2019	2:00 AM	Michigan: Tuscola County, Sanilac County, Huron County, St. Clair County, Macomb County, Oakland County, Wayne County, Livingston County, Washtenaw County, Monroe County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	30	107000
November	11/29/2019	12:00 AM	12/01/2019	12:00 AM	Texas: Dawson County;	TRE	Damage or destruction of a Facility within its Reliability Coordinator Area, Balancing Authority Area or Transmission Operator Area that results in action(s) to avoid a Bulk Electric System Emergency.	Actual Physical Attack	0	0
December	12/03/2019	7:16 PM	12/03/2019	7:49 PM	Alabama: Covington County;	SERC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
December	12/03/2019	6:55 AM	Unknown	Unknown	California: Fresno County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	Unknown
December	12/05/2019	4:48 PM	12/09/2019	5:16 AM	Ohio: Kentucky;	RF	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
December	12/05/2019	12:00 AM	Unknown	Unknown	Washington: Chelan County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	Unknown	Unknown
December	12/07/2019	6:10 AM	12/08/2019	2:20 AM	Oklahoma: Stephens County;	SPP RE	Physical attack that causes major interruptions or impacts to critical infrastructure or to operations.	Actual Physical Attack	2	400
December	12/08/2019	1:40 PM	12/08/2019	1:41 PM	Texas: Dallas County;	TRE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
December	12/11/2019	8:53 PM	12/11/2019	9:33 PM	Oklahoma: Stephens County;	SPP RE	Physical attack that causes major interruptions or impacts to critical infrastructure or to operations.	Actual Physical Attack	1	392
December	12/11/2019	1:27 PM	12/11/2019	1:51 PM	North Dakota: Burleigh County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	18	1

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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	12/11/2019	1:22 PM	12/11/2019	4:28 PM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
December	12/16/2019	11:55 PM	12/17/2019	1:47 AM	Texas:	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
December	12/18/2019	2:30 PM	12/18/2019	3:25 PM	Texas: Nueces County;	TRE	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
December	12/19/2019	2:58 AM	12/19/2019	3:46 AM	Nebraska:	MRO	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
December	12/24/2019	3:30 PM	12/24/2019	7:34 PM	Illinois:	SERC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
December	12/31/2019	12:00 PM	12/31/2019	1:00 PM	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
December	12/31/2019	11:03 AM	01/01/2020	10:59 AM	Texas: Nueces County;	TRE	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Transmission Interruption	25	0