

System Operations Subcommittee

PJM Operations Summary

May 2018 Operations – Partial

**There were 64 PCLLRWs and 2 High System Voltage events in May
There was 0 DCS reportable event in May**

CPS1: X% BAAL: X%¹ CPS2: X%

¹PJM directly measures the total number of BAAL excursions in minutes compared to the total number of minutes within a month with a target value for this performance goal at 99% on a daily and monthly basis. NERC rules limit the recovery period to no more than 30 minutes for a single event.

DCS (0 Events)

Spinning (0 Events)

High System Voltage Action (4 Events)

05.05.2018 22:45	05.06.2018 09:22	A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System: 1. All switchable capacitors are out of service. 2. All reactors are in service. 3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
05.06.2018 23:45	05.07.2018 05:50	A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System: 1. All switchable capacitors are out of service. 2. All reactors are in service. 3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. Target: Distribution Companies/Transmission

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		Owners/Generation
05.13.2018 03:05	05.13.2018 09:50	A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System: 1. All switchable capacitors are out of service. 2. All reactors are in service. 3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation
05.20.2018 01:45	05.20.2018 09:30	A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System: 1. All switchable capacitors are out of service. 2. All reactors are in service. 3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. Target: Distribution Companies/Transmission Owners/Generation

Manual Load Dump Warning (1 Event)

05.14.2018 11:30	05.14.2018 14:32	A Manual Load Dump Warning has been issued as of 11:21 on 05.14.2018 This is for the 2018 PJM Summer Emergency Procedures Drill. Additional Comments: PJM is issuing a Manual Load Dump Warning for 2200 MW for deficient zones.	PJM-RTO
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HLV Schedule Warning (1 Event)

05.14.2018 07:28	05.14.2018 14:32	A HLV Warning (Heavy Load Voltage Schedule Warning) has been issued. Additional Comments: This is for PJM's 2018 Summer Emergency Procedures Drill	PJM-RTO
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HLV Schedule Action (1 Event)

05.14.2018 08:45	05.14.2018 14:32	A HLV Action (Heavy Load Voltage Schedule Action) has been issued. Additional Comments: This is for the 2018 PJM Summer Emergency Procedures Drill	PJM-RTO
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Hot/Cold Weather Alert (3 Events)

05.01.2018 10:43	05.03.2018 23:45	A Hot Weather Alert has been issued from 07:00 on 05.03.2018 through 23:45 on 05.03.2018 Per M-13, members are expected to perform the following actions: TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled. GENERATION DISPATCHERS: -- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information. -- Submit alternate fuel capability &	MIDATL, SOUTHERN
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		<p>alternate fuel restrictions via Markets Gateway.</p> <ul style="list-style-type: none">-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available. <p>Additional Comments: Forecasted temperature for Thursday May 3rd (90 degrees for the Mid-Atlantic region and 92 degrees for the Southern Region). Forecasted THI is (79 degrees for the Mid-Atlantic region and 80 degrees for the Southern Region).</p>	
05.02.2018 12:29	05.04.2018 22:00	<p>A Hot Weather Alert has been issued from 07:00 on 05.04.2018 through 22:00 on 05.04.2018 Per M-13, members are expected to perform the following actions:</p> <p>TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.</p> <p>GENERATION DISPATCHERS:</p> <ul style="list-style-type: none">-- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.-- Submit alternate fuel capability & alternate fuel restrictions via Markets	MIDATL, SOUTHERN

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		<p>Gateway.</p> <ul style="list-style-type: none">-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available. <p>Additional Comments: Forecasted temperature for Friday May 4th (88 degrees for the Mid-Atlantic region and 92 degrees for the Southern Region). Forecasted THI is (77 degrees for the Mid-Atlantic region and 78 degrees for the Southern Region).</p>	
05.27.2018 08:00	05.28.2018 22:00	<p>A Hot Weather Alert has been issued from 08:00 on 05.28.2018 through 22:00 on 05.28.2018 Per M-13, members are expected to perform the following actions:</p> <p>TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.</p> <p>GENERATION DISPATCHERS:</p> <ul style="list-style-type: none">-- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.-- Submit alternate fuel capability & alternate fuel restrictions via Markets Gateway.	WESTERN

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		<p>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</p> <p>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.</p> <p>-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.</p>	
05.28.2018 08:00	05.29.2018 22:30	<p>A Hot Weather Alert has been issued from 07:00 on 05.29.2018 through 22:30 on 05.29.2018 Per M-13, members are expected to perform the following actions:</p> <p>TRANSMISSION/GEN DISPATCHERS review plans to determine if any maintenance/testing, scheduled/being performed, on any monitoring, control, transmission/generating equipment can be deferred/canceled.</p> <p>GENERATION DISPATCHERS:</p> <p>-- Review & update unit parameters in Markets Gateway through the Hot Weather Alert period paying particular attention to accurate Start-up & Notification, Min/Max Run Time, Eco Min/Max and Emergency Min/Max information.</p> <p>-- Submit alternate fuel capability & alternate fuel restrictions via Markets Gateway.</p> <p>-- Review fuel supply/delivery schedules in anticipation of greater than normal operation of units.</p> <p>-- Provide PJM with estimate of time needed to return any unit on a Planned Outage. This 'Early Return Time' should be updated via eDART & will not affect the Planned Outage est. end date.</p>	MIDATL WESTERN

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		-- For dual fuel units, confirm the equipment is functional & amount of alternate fuel available.	
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Primary Reserve Warning (5 Events)

05.14.2018 10:00	05.14.2018 14:32	A Primary Reserve Warning has been issued from 10:00 on 05.14.2018 through 14:32 on 05.14.2018 Actual primary reserves are lesser than the requirement. Primary Reserve Objective is 1988 MW. Additional Comments: This is for the PJM 2018 Emergency Procedures Drill	PJM-RTO
05.14.2018 15:14	05.14.2018 15:32	A Primary Reserve Warning has been issued from 15:15 on 05.14.2018 through 15:32 on 05.14.2018 Actual primary reserves are lesser than the requirement. Primary Reserve Objective is 2000 MWS	PJM-RTO
05.14.2018 15:55	05.14.2018 16:09	A Primary Reserve Warning has been issued from 15:55 on 05.14.2018 through 16:09 on 05.14.2018 Actual primary reserves are lesser than the requirement. Primary Reserve Objective is 2000	AE
05.14.2018 16:00	05.14.2018 16:09	A Primary Reserve Warning has been issued from 16:00 on 05.14.2018 through 16:09 on 05.14.2018 Actual primary reserves are lesser than the requirement. Primary Reserve Objective is 2000 MWS	PJM-RTO
05.14.2018 16:04	05.14.2018 16:09	A Primary Reserve Warning has been issued from 16:04 on 05.14.2018 through 16:09 on 05.14.2018 Actual primary reserves are lesser than the requirement. Primary Reserve Objective is 2000 MWS	MIDATL

Voltage Reduction Warning (0 Events)

Voltage Reduction (0 Events)

Emergency Energy Request (0 Events)

Max Emergency Gen Alert (0 Events)

Max Emergency Generation (0 Events)

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Local Min Generation Event (1 Event)

05.01.2018 00:05	05.01.2018 08:05	A Local Minimum Generation Event has been issued for ComEd Transmission Zone.	COMED
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Shared Reserve (1 Event)

05.16.2018 12:11	05.16.2018 12:30	-55 MW with NYISO - Bella Dune loaded at 440 mw's - Regulation	NYISO
05.06.2018 10:37	05.06.2018 10:37	-128 MW with NYISO - Bruce #5 865 MW's - Regulation	NYISO

Min Gen Alert (0 Events)

Emergency Procedure (32 Events)

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05.20.2018 01:45	05.20.2018 09:30	<p>A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <ol style="list-style-type: none">1. All switchable capacitors are out of service.2. All reactors are in service.3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.4. All SVCs are absorbing reactive power.5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. <p>Target: Distribution Companies/Transmission Owners/Generation</p>	PJM-RTO
05.14.2018 15:51	05.14.2018 15:55	<p>A Load Shed Directive of 100 MW in the Linwood area of PECO has been issued for Transmission Control.</p>	PECO
05.14.2018 15:50	05.14.2018 15:51	<p>A Deploy All Resources Action , and associated NERC Energy Emergency Alert Level 2 [EEA2], has been issued.</p> <ul style="list-style-type: none">- Member Generation Dispatchers raise all available online generating units to full output (Emergency Maximum).- Member Generation Dispatchers start up all offline generation as soon as possible and ramp to full output (Emergency Maximum).- Member Curtailment Service Providers with Load Management (Pre-Emergency and/or Emergency) reduce load immediately when dispatched.	PJM-RTO

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		<p>- Transmission/Generation Dispatchers notify management of the emergency procedure and that they should consider the use of public appeals to conserve electricity usage.</p> <p>- Member dispatchers notify governmental agencies, as applicable.</p>	
05.14.2018 15:44	05.14.2018 15:48	<p>A Curtailment of Non-Essential Building Load Action has been issued to provide additional load relief reductions.</p> <p>Transmission/Generation dispatchers/LSEs switch off all non-essential light and power in LSE-owned commercial, operations, and administration offices.</p>	WESTERN
05.14.2018 15:39	05.14.2018 15:43	<p>A Voltage Reduction Warning and Reduction of NCPL have been issued.</p> <p>Actual Synchronized (or Spinning) Reserves are less than the Synchronized (or Spinning) Reserve requirement.</p> <p>PJM Member Actions:</p> <ol style="list-style-type: none">1. Generation dispatchers order all generating stations to curtail non-essential station light and power.	MIDATL
05.14.2018 15:36	05.14.2018 15:39	<p>An Emergency Voluntary Energy Only Demand Response Reduction Action has been issued. Load reduction is expected to be implemented as soon as possible and is requested to remain reduced as long as possible or until cancelled by PJM. CSPs should review DR Hub for specific registration details. Dispatched Control Zone(s) only.</p>	PJM-RTO
05.14.2018 15:33	05.14.2018 15:35	<p>A Maximum Generation Emergency Action has been issued.</p>	SOUTHERN
05.14.2018 12:45	05.14.2018 13:53	<p>A Manual Load Dump Action of 2200 MW and an EEA3 have been requested. Total load shed from all active Manual Load Dump Actions within this Region is 2200 MW. This is for the 2018 PJM Summer Emergency Procedures Drill.</p> <p>Additional Comments: PJM has requested</p>	PJM-RTO

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		a manual load dump of 2200 MW in zones that are capacity deficient.	
05.14.2018 12:00	05.14.2018 14:32	A Voltage Reduction Action of 5% % and a NERC level EEA2 has been issued for PJM - RTO. NOTE: Curtailment of Non-Essential Building Load should be issued prior to, but no later than the same time as a Voltage Reduction. This is for the 2018 PJM Summer Emergency Procedure Drill. Additional Comments: 2.5% voltage reduction for the City of Chicago.	PJM-RTO
05.14.2018 11:30	05.14.2018 14:32	A Maximum Generation Emergency Action has been issued. This is for the 2018 PJM Summer Emergency Procedures Drill Additional Comments: At this time, PJM is requesting all fuel limited generation be loaded and that regulation be suspended for all units except hydro units with a regulation assignment.	PJM-RTO
05.14.2018 11:15	05.14.2018 14:32	A Deploy All Resources Action, and associated NERC Energy Emergency Alert Level 2 [EEA2], has been issued. - Member Generation Dispatchers raise all available online generating units to full output (Emergency Maximum). - Member Generation Dispatchers start up all offline generation as soon as possible and ramp to full output (Emergency Maximum). - Member Curtailment Service Providers with Load Management (Pre-Emergency and/or Emergency) reduce load immediately when dispatched. - Transmission/Generation Dispatchers notify management of the emergency procedure and that they should consider the use of public appeals to conserve electricity usage. - Member dispatchers notify governmental agencies, as applicable.	PJM-RTO

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05.14.2018 10:50	05.14.2018 14:32	A Maximum Generation Emergency Action has been issued. This is for the 2018 PJM Summer Emergency Procedures Drill Additional Comments: PJM is now requesting Maximum Emergency Steam to be loaded	PJM-RTO
05.14.2018 10:44	05.14.2018 14:32	A Voltage Reduction Warning and Reduction of NCPL has been issued. Actual Synchronized (or Spinning) Reserves are less than the Synchronized (or Spinning) Reserve requirement. PJM Member Actions: 1. Generation dispatchers order all generating stations to curtail non-essential station light and power. Additional Comments: This is for the PJM 2018 Summer Emergency Procedures Drill.	PJM-RTO
05.14.2018 10:28	05.14.2018 14:32	An Emergency Voluntary Energy Only Demand Response Reduction Action has been issued. Load reduction is expected to be implemented as soon as possible and is requested to remain reduced as long as possible or until cancelled by PJM. CSPs should review DR Hub for specific registration details. Dispatched Control Zone(s) only. Additional Comments: This is for the PJM 2018 Summer Emergency Procedures Drill	PJM-RTO
05.14.2018 10:15	05.14.2018 14:32	A Maximum Generation Emergency Action has been issued. This is for the PJM 2018 Summer Emergency Procedures Drill Additional Comments: Load Maximum Generation for CT's ONLY. Steam Units will be loaded separately on an as-needed basis. Do not suspend regulation at this time; this action will be called for when required by system conditions.	PJM-RTO
05.14.2018 09:15	05.14.2018 14:40	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load	DPL FE-JC PEPCO PS

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		reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30. Product(s) dispatched: Annual DR,Extended Summer DR,Limited DR	RECO
05.14.2018 09:15	05.14.2018 14:40	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Short_60. Product(s) dispatched: Extended Summer DR	BGE DAYTON DUQ
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30. Product(s) dispatched: Capacity Performance DR,Extended Summer DR	DAYTON DUQ EKPC
05.14.2018 09:15	05.14.2018 14:40	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Short_60, Long_120 . Product(s) dispatched: Annual DR,Limited DR,Extended Summer	AE, AEP, APS, BGE, DAYTON, DEOK, DOM, DPL, DUQ, FE- ATSI, FE- JC, FE- ME, FE- PN,

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		DR,Capacity Performance DR	PECO, PEPCO, PS
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Long_120. Product(s) dispatched: Annual DR,Extended Summer DR	DAYTON DPL FE-PN
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Long_120. Product(s) dispatched: Capacity Performance DR,Extended Summer DR,Limited DR,Annual DR	AEP APS COMED DOM PPL
05.14.2018 09:15	05.14.2018 14:40	A Pre-Emergency Load Mgmt Reduction Action has been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Short_60. Product(s) dispatched: Limited DR,Extended Summer DR	AE DOM PEPCO PS
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been	COMED FE-ATSI

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		issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30, Long_120. Product(s) dispatched: Extended Summer DR,Limited DR,Annual DR	
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30. Product(s) dispatched: Limited DR	AE FE-JC PS
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Quick_30. Product(s) dispatched: Extended Summer DR,Limited DR,Annual DR	APS BGE DEOK DOM DPL FE-ME FE-PN PECO PEPCO PPL
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product	BGE PECO PS

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		requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Long_120. Product(s) dispatched: Limited DR	
05.14.2018 09:15	05.14.2018 14:40	An Emergency Load Mgmt Reduction Action and a NERC level EEA2 have been issued. Load reduction start times can be found by clicking on the hyperlink(s) in the Regions column. Load reductions should continue until released by PJM. Reductions are mandatory based on product requirements. CSPs should review DR Hub for specific registration details. Lead Time(s) dispatched: Short_60. Product(s) dispatched: Extended Summer DR	DOM FE-ATSI FE-ME
05.14.2018 08:30	05.14.2018 14:32	A Maximum Generation Emergency Action has been issued. Additional Comments: For the 2018 Summer Emergency Procedures Drill	PJM-RTO
05.13.2018 03:05	05.13.2018 09:50	A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System: 1. All switchable capacitors are out of service. 2. All reactors are in service. 3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch. 4. All SVCs are absorbing reactive power. 5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible. 6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. Target: Distribution	PJM-RTO

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		Companies/Transmission Owners/Generation	
05.06.2018 23:45	05.07.2018 05:50	<p>A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <ol style="list-style-type: none">1. All switchable capacitors are out of service.2. All reactors are in service.3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.4. All SVCs are absorbing reactive power.5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. <p>Target: Distribution Companies/Transmission Owners/Generation</p>	PJM-RTO
05.05.2018 22:45	05.06.2018 09:22	<p>A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <ol style="list-style-type: none">1. All switchable capacitors are out of service.2. All reactors are in service.3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.4. All SVCs are absorbing reactive power.5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.	PJM-RTO

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		<p>6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve.</p> <p>Target: Distribution Companies/Transmission Owners/Generation</p>	
05.20.2018 01:45	05.20.2018 09:30	<p>A High System Voltage has been issued; all companies shall take the following actions on the Bulk Electric System:</p> <ol style="list-style-type: none">1. All switchable capacitors are out of service.2. All reactors are in service.3. TOs are requested to review and adjust LTC settings as appropriate. All LTC (230 kV and above) and voltage schedule adjustments shall be coordinated with PJM Dispatch.4. All SVCs are absorbing reactive power.5. Generation Owners shall operate generators at the lower bandwidth of their voltage schedule when possible.6. Generation Owners shall communicate with PJM and the TO restrictions to their generator's ability to absorb MVARs if that capability varies from the existing "D" curve. <p>Target: Distribution Companies/Transmission Owners/Generation</p>	PJM-RTO

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PCLLRW (36 Events)

04.30.2018 01:26	05.01.2018 16:15	A Post Contingency Local Load Relief Warning has been issued to maintain NOTREDAM-SBENDAEP at 213 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
05.02.2018 14:49	05.02.2018 20:51	A Post Contingency Local Load Relief Warning has been issued to maintain FARMERSV-RIDG PN RV 1048 at 163 MVA in the PN for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-PN
05.02.2018 20:59	05.02.2018 21:08	A Post Contingency Local Load Relief Warning has been issued to maintain ANTHONYT-LINCOLN2 at 248 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.07.2018 12:54	05.07.2018 16:44	A Post Contingency Local Load Relief Warning has been issued to maintain KENYON 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Post Cont auto caps	AEP
05.08.2018 14:28	05.09.2018 18:25	A Post Contingency Local Load Relief Warning has been issued to maintain POLEYARD 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP

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05.12.2018 16:44	05.12.2018 20:10	A Post Contingency Local Load Relief Warning has been issued to maintain GREENWCH TX1 XFORMER at 255 MVA in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
05.14.2018 22:59	05.16.2018 00:27	A Post Contingency Local Load Relief Warning has been issued to maintain THELMA 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
05.15.2018 14:42	05.15.2018 15:40	A Post Contingency Local Load Relief Warning has been issued to maintain PERSON4-SEDGEHIL 296BTIE at 718 MVA in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
05.15.2018 16:20	05.15.2018 17:04	A Post Contingency Local Load Relief Warning has been issued to maintain PERSON4-SEDGEHIL 296BTIE at 718 MVA in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
05.17.2018 14:49	05.17.2018 20:37	A Post Contingency Local Load Relief Warning has been issued to maintain BARRENCO 161 KV at 148.9 KV in the EKPC for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	EKPC
05.21.2018 08:46	05.21.2018 23:54	A Post Contingency Local Load Relief Warning has been issued to maintain YUKONAEP 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.21.2018 23:45	05.22.2018 08:44	A Post Contingency Local Load Relief Warning has been issued to maintain MEADOWBR-STRASBUR MST at 229 MVA in the APS for Transmission Contingency Control.	APS

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		Additional Comments: Post Contingency Generation redispatch available	
05.23.2018 03:44	05.23.2018 06:56	A Post Contingency Local Load Relief Warning has been issued to maintain MEADOWBR-STRASBUR MST at 229 MVA in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Generation redispatch available	APS
05.23.2018 14:17	05.23.2018 14:26	A Post Contingency Local Load Relief Warning has been issued to maintain GREENWCH TX1 XFORMER at 296 MVA in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
05.23.2018 14:25	05.23.2018 18:39	A Post Contingency Local Load Relief Warning has been issued to maintain GREENWCH TX1 XFORMER at 267 MVA in the Dominion for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DOM
05.23.2018 21:24	05.24.2018 10:05	A Post Contingency Local Load Relief Warning has been issued to maintain MEADOWBR-STRASBUR MST at 229 MVA in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	APS
05.25.2018 15:15	05.25.2018 21:07	A Post Contingency Local Load Relief Warning has been issued to maintain KENYON 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-ATSI
05.27.2018 14:49	05.27.2018 23:33	A Post Contingency Local Load Relief Warning has been issued to maintain GABLESW-SCADIZ GAB-SCA at 192 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP

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05.28.2018 13:16	05.28.2018 22:49	A Post Contingency Local Load Relief Warning has been issued to maintain PAWNEETP-LEROYCEN PAW-LER1 at 115 MVA in the ATSI for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-ATSI
05.28.2018 15:44	05.28.2018 22:22	A Post Contingency Local Load Relief Warning has been issued to maintain KENYON 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-ATSI
05.28.2018 14:17	05.28.2018 20:43	A Post Contingency Local Load Relief Warning has been issued to maintain GABLESW-SCADIZ GAB-SCA at 192 MVA in the AEP for Transmission Contingency Control. Additional Comments: Generation - slow response	AEP
05.29.2018 08:43	05.30.2018 00:14	A Post Contingency Local Load Relief Warning has been issued to maintain BERWIND 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.29.2018 09:06	05.29.2018 19:44	A Post Contingency Local Load Relief Warning has been issued to maintain AUBURNC5 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.29.2018 09:34	05.29.2018 19:43	A Post Contingency Local Load Relief Warning has been issued to maintain GABLESW-SCADIZ GAB-SCA at 192 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
05.29.2018 11:00	05.29.2018 12:59	A Post Contingency Local Load Relief Warning has been issued to maintain PAWNEETP-LEROYCEN PAW-LER1 at 115 MVA in the ATSI for Transmission Contingency Control. Additional Comments: Post Contingency	FE-ATSI

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		Switching available	
05.29.2018 13:03	05.29.2018 20:23	A Post Contingency Local Load Relief Warning has been issued to maintain TORONTO B5 CB at 1434 MVA in the ATSI for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	FE-ATSI
05.29.2018 13:05	05.29.2018 19:43	A Post Contingency Local Load Relief Warning has been issued to maintain EDISON2-KANKAKEE at 213 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.29.2018 13:38	05.29.2018 19:43	A Post Contingency Local Load Relief Warning has been issued to maintain ESIDEIM-STUDEBAK at 260 MVA in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.29.2018 14:00	05.29.2018 20:23	A Post Contingency Local Load Relief Warning has been issued to maintain MAPLEOE-JACKSNOE at 319 MVA in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-ATSI
05.29.2018 15:16	05.29.2018 20:23	A Post Contingency Local Load Relief Warning has been issued to maintain BELLEP 138 KV at 127 KV in the ATSI for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	FE-ATSI
05.29.2018 15:33	05.30.2018 00:12	A Post Contingency Local Load Relief Warning has been issued to maintain DELAWARE-WATK TAP DEL-WAT at 220 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DAYTON

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05.29.2018 08:43	05.30.2018 00:14	A Post Contingency Local Load Relief Warning has been issued to maintain BERWIND 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.30.2018 11:07	05.30.2018 20:07	A Post Contingency Local Load Relief Warning has been issued to maintain YUKONAEP 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.30.2018 11:11	05.30.2018 20:35	A Post Contingency Local Load Relief Warning has been issued to maintain GABLESW-SCADIZ GAB-SCA at 192 MVA in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
05.30.2018 14:42	05.30.2018 19:47	A Post Contingency Local Load Relief Warning has been issued to maintain DELAWARE-WATK TAP DEL-WAT at 220 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

Non-PCLLRW (28 Events)

05.02.2018 13:32	05.04.2018 23:04	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HOWARD2 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.03.2018 12:50	05.04.2018 23:04	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ESIDELIM 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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04.21.2018 09:00	05.07.2018 16:58	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WCAMBRI2 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	AEP
05.07.2018 11:14	05.08.2018 05:54	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BLUEFIEL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility	AEP
05.09.2018 12:55	05.09.2018 13:36	New Non-Market Post Contingency Local Load Relief Warning for APS. As of 05/09/2018 13:32:41 a new Non-Market Post Contingency Local Load Relief Warning to maintain line KV voltage above 127 KV in the PURSLEY 138 KV area of APS has been issued for Transmission Contingency Control. Additional Comments: Post-contingency LowVoltage on PURSLEY 138 KV for the loss of DTX138.Whiteley.T1. Post Contingency Switching Solution: AT Whiteley Isolate DTX- 1 and return bus and lines to Pursley and 502JCT and place 138 kV Cap back in service.	AEP
05.09.2018 13:51	05.09.2018 16:05	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BUCKHRN 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.08.2018 08:53	05.10.2018 11:47	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BLUEFIEL 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility	AEP

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05.09.2018 13:18	05.11.2018 16:00	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain FRAN APS 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	APS
05.09.2018 13:32	05.11.2018 16:00	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain PURSLEY 138 KV at 127 KV in the APS for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	APS
05.15.2018 10:35	05.16.2018 00:27	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BLUFFPOI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.15.2018 12:10	05.16.2018 00:27	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ESIDELIM 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.17.2018 09:46	05.17.2018 22:44	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HWBUCKHO 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.17.2018 10:38	05.17.2018 22:44	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ESIDELIM 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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05.17.2018 10:39	05.17.2018 22:44	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain LONESOME 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.18.2018 06:33	05.18.2018 21:12	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SMILLERS 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.18.2018 07:37	05.18.2018 21:12	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain ESIDELIM 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.21.2018 13:04	05.21.2018 23:54	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain SMILLERS 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.21.2018 13:49	05.21.2018 23:54	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BLUFFPOI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: BES 2 Facility	AEP
05.24.2018 13:15	05.25.2018 23:02	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain BLUFFPOI 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP

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05.28.2018 17:26	05.28.2018 20:43	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HIGHLND2-MARTIDPL HIG-09M1 at 68 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: BES 2 Facility	DAYTON
05.29.2018 07:33	05.29.2018 19:43	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HWBUCKHO 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.29.2018 08:44	05.29.2018 19:44	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain WOOSTER 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.29.2018 09:02	05.30.2018 01:07	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain GREENCO 69 KV at 63.5 KV in the EKPC for Transmission Contingency Control. Additional Comments: BES 2 Facility	AEP
05.29.2018 10:54	05.29.2018 19:46	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HIGHLND2-MARTIDPL HIG-09M1 at 68 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Post Contingency Switching available	DAYTON
05.29.2018 15:29	05.30.2018 00:12	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain 09URBANA-BATH at 208 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DAYTON
05.30.2018 09:52	05.30.2018 20:07	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain HWBUCKHO 138 KV at 127 KV in the AEP for Transmission Contingency Control.	COMED

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		Additional Comments: BES 2 Facility	
05.30.2018 11:04	05.30.2018 20:07	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain MIER 138 KV at 127 KV in the AEP for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	AEP
05.30.2018 11:49	05.30.2018 19:46	A Non-Market Post Contingency Local Load Relief Warn has been issued to maintain 09URBANA-BATH at 208 MVA in the DAYTON for Transmission Contingency Control. Additional Comments: Load -No Generation or Switching available	DAYTON