

Summary of M-13 Rev. 67 Changes

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Director, Dispatch
Systems Operation Sub-committee - Joint
October 3rd, 2018

Administrative Changes:

Effective Date: November 1st, 2018

Now Revision 67

Overview of Changes:

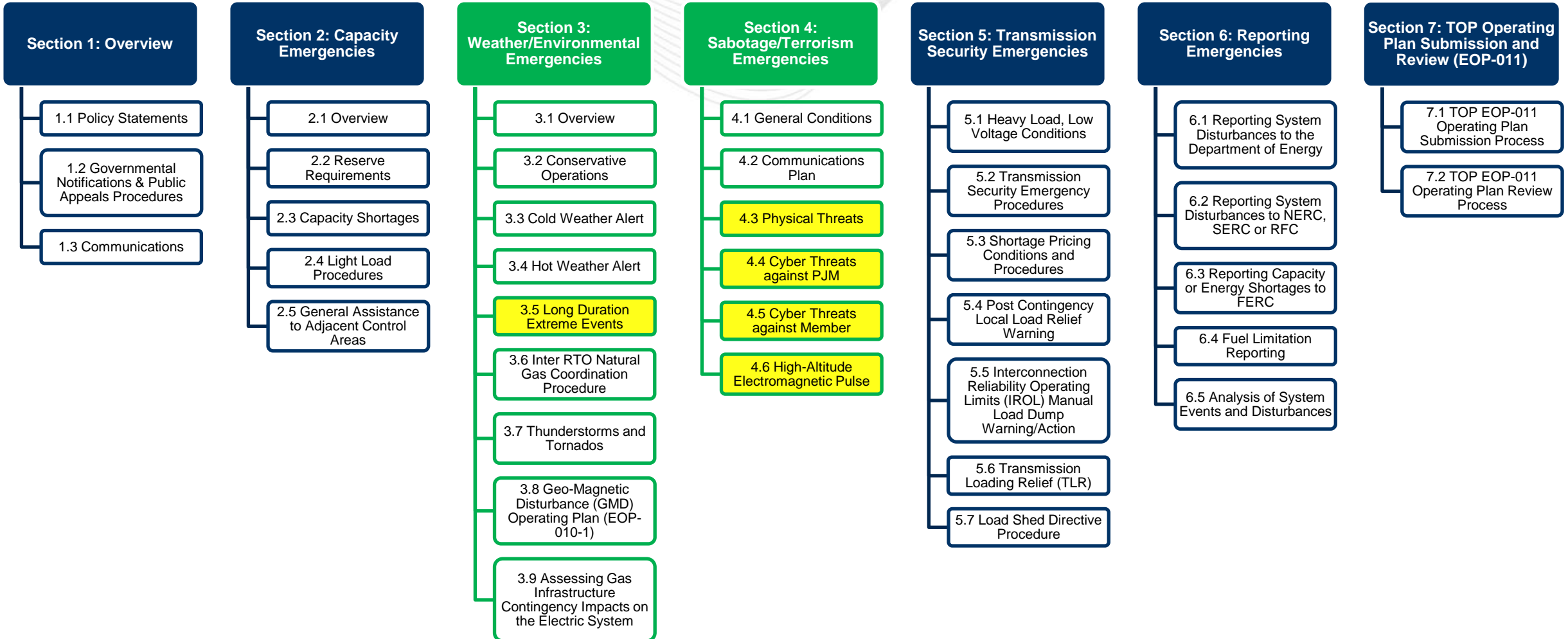
- Cover to Cover Periodic Review
- ~~Section 3.1 added language to increase burn hour requirements when long duration extreme events are forecasted~~
- Section 3.2 added “Production System Freeze Change” to Conservative Ops
- Section 3.3
 - Corrected formatting for Day-Ahead commitment instructions
 - Added reference to M-11 regarding PLS schedules
- Section 3.4 Added reference to M-11 regarding PLS schedules
- New Section 3.5 added for “Long Duration Extreme Events”
 - Old Sections 3.5, 3.6, 3.7, and 3.8 renumbered accordingly
- Section 3.6 added language for disabling auto-reclose
- Section 4.1 deleted Exhibit 4 table
 - Former Exhibit 4 content reformatted and inserted into existing section 4.1 and new sections 4.3 and 4.4

- Section 4.2: Added language to outline communication between PJM, its members and the E-ISAC with regards to potential cyber or physical attacks
- New section 4.3 for PJM operational procedure for physical threats
- New section 4.4 for PJM operational procedure for cyber threats against PJM
 - New section 4.4.1 for loss of ICCP or EMS capabilities operational procedure
 - New section 4.4.2 for loss of internet operational procedure
 - New section 4.4.3 for loss of all telecommunications operational procedure
- New section 4.5 for PJM operational procedure for cyber threats against member company
- New section 4.6 for PJM operational procedure for High-Altitude Electromagnetic Pulse
- Section 5.4 General language clarifications and modifications for consistent use and spelling of terms
- [Section 5.4.1 language clarifications based on AEP Load Shed Root Cause Analysis recommendations](#)
- Section 6.4 added language to adjust “Resource Limited Unit” reporting time-frame and minimum run time requirements to place additional Fuel Limited Resources into the Maximum Emergency Category during long duration extreme weather events.
- Annual updates to Attachments E, F, and [N](#)



PJM Manual 13: Emergency Operations

New Proposed Sections



- Section 3.2: Added language clarifying TO/GO responsibilities during a Production System Change Freeze.
- Section 4.1: During Elevated Threat Alerts, “Members should consider limited, or full, activation of their organization’s emergency preparedness action plans”
- Section 4.3: Transmission/Generation dispatchers consider activating their emergency preparedness plans per their internal procedures.
- Section 4.3: Clarified that Transmission dispatchers should enhance security via their internal process and procedures.

- Section 4.4.1: Removed language suggesting enhanced physical security
- Section 4.4.1: Transmission/Generation dispatchers consider activating their emergency preparedness plans per their internal procedures.
- Section 4.4.1 and 4.4.2: PJM will update members on situation severity and expected restoration time
- Section 4.4.2: Removed names of PJM databases, instead referred to type of critical near-term system updates dispatchers should provide to PJM.

- Section 4.5: removed terms “remote” and “remotely” when referring to unauthorized operation of assets.
- Section 4.5.1 and 4.5.2: Member will update PJM on situation severity and expected restoration time
- Section 4.5.1: Consider staffing substations for communications.
- Section 4.3, Section 4.4.1, Section 4.5.2, Section 4.6 : Under PJM Member Actions, revised language to specify ‘Generator Operators’ when referring to staffing of Critical CTs or Black Start units

Relay verification after a cyber event – Language revised

- Section 4.5.2
 - After the cyber threat has been resolved, and consistent with the member company's cyber response procedures, the affected member company will identify its affected/potentially affected BES facilities, and verify protective relay settings of those affected/potentially affected BES facilities

- Contact Dean Manno (dean.manno@pjm.com) with questions
- Request for endorsement schedule:
 - October 9th: OC Meeting
 - October 25th: MRC Meeting
- Reviewing operator training impacts of Manual changes