

Manual	Description	Current Revision	Effective Date	Last 60 days	Next 60 days
M01	Control Center Requirements [m01] presents requirements for control centers of signatories to the Operating Agreement of PJM. The manual describes the telecommunication linkages to the PJM OI and recommended characteristics of these control center computer systems and the facilities housing these systems. It also summarizes the computer services and systems at the PJM Control Center, the standards for billing quality MWH meters, and meter accuracy standards.	17	1-Jan-10	Annual Review	Potential changes to add details / clarity for TO matrix
M03	Transmission Operations [m03] discusses specific transmission conditions and procedures for the management of Transmission Facilities within the PJM Control Area.	37	18-Jun-10	Annual Review Updates to sections on relay maintenance to provide additional clarity Changes to Section 5. • Section 5 – Formatting, corrections and additions where appropriate within Index Tables. • Section 5 – Clear designation via [SPS] denotation of Special Protection Schemes within PJM. • Section 5 – Removed separate Voltage Setpoints based upon LTC's being in Auto or Manual mode for Dresden Nuclear Voltage Limits within the Voltage Control at Nuclear Stations section of Operating Procedures for PJM RTO. • Section 5 – Added distinct Voltage Drop %'s and Limits for Susquehanna when only one start-up transformer is in service or when both are in service within the Voltage Control at Nuclear Stations section of Operating Procedures for PJM RTO. • Section 5 – Added 138kV Voltage limits for Beaver Valley #1 & #2 within the Voltage Control at Nuclear Stations section of Operating Procedures for PJM RTO. • Section 5 – Removed 500kV CB Derate for the '5020' 500kV line CB Derate Table due to breaker replacement within the Operating Procedures for PS Transmission Zone. • Section 5 – Nottingham - Graceton 230 kV Line Limitations. Due to relay changes, revised "does not" to "will" in regard to contingency changes at Conowingo upon opening Bus Tie CB within the Operating Procedures for the BC Transmission Zone. • Section 5 – Steel City – Hosensack 500kV Line Reclosing Limitation. Clarified description of reclosing limitation and associated procedure within the Operating Procedures for the PL	N/A
M03a	Energy Management System Model Updates and Quality Assurance [m3a] These documents are the primary source for specific requirements and implementation details	5	3-May-10	Appendix A 'TERM Processing' was revised as follows: - Re-named 'Processing Ratings in TERM'. - An explanation of new TERM Bulk Upload capability scheduled for implementation 2Q10 was included. Appendix C 'Bulk Electric System (BES) Implementation' revised as follows: - Added special modeling discussion to the Electrical Models section. - Minor edits to improve readability.	N/A
M10	Pre-Scheduling Operations [m10] describes PJM and PJM Member pre-scheduling activities that set the stage for the scheduling and dispatching phases of the PJM Control Area Operation.	25	1-Jan-10		N/A
M11	Scheduling Operations [m11] provides information on the day ahead and hourly scheduling activities that are performed by the PJM OI and PJM Members. The manual describes the rules and procedures for scheduling resources.	45	23-Jun-10		As a result of added automation, Mr. Keech will review a change to Manual M-11 to eliminate the need for a verbal phone call from PJM to the asset owner confirming Tier 2 assignments.
M12	Dispatching Operations [m12] describes activities that occur in the real-time operation of the PJM and PJM Western Region and also the PJM Energy Market. The Manual describes how the PJM OI dispatchers manage Capacity Resources and monitor transmission facilities. It also describes how the PJM OI provides Ancillary Services.	20	5-Oct-09	IRC & Blackstart Changes	Proposed Regulation language changes

Manual	Description	Current Revision	Effective Date	Last 60 days	Next 60 days
M13	Emergency Operations [m13] focuses on how the PJM and the PJM Members are expected to respond to emergency conditions. Emergency conditions include: an abnormal electrical system condition requiring manual or automatic action, a fuel shortage, or a condition that requires implementation of emergency procedures as defined in the PJM Manuals.	39	1-Jan-10	Updated (corrected) Load Management sections of M13 on the following pages: 24 (in Section 2), 57 and 62 (in Section 5) and 130 and 132 (in Attachment G).	<ul style="list-style-type: none"> • Updated language in Load management sections • Updated table in Attachment F • Completed 2010 Annual Review of the EOP manual <ul style="list-style-type: none"> o Section 2 Capacity Emergencies, page 27, Step 7A (Real-Time): Voltage Reduction o Section 2.4.2: Minimum Generation Alert, page 32 updated text box: o Updated 6.1 Reporting System Disturbances to the Department of Energy, page 79 o Updated 6.4 Fuel Limitation Reporting, page 81 o All UDS entries changed to SCED. o All Scheduling Coordinator entries changed to Master Coordinator. o All PJM CA entries changed to PJM RTO.
M14D	Generator Operational Requirements [m14d] focuses on the generator markets and operations requirements for generating entities to connect to the PJM system and their responsibilities as signatories to the Operating Agreement of the PJM Interconnection.	18	1-Jun-10	<ul style="list-style-type: none"> • Revised Attachment D, E, and F to remove redundancy and reorder. • Modified Attachment E to change requirement to submit completed PJM Leading and/or Lagging Test Form R to PJM within 30 calendar days after completion of the testing (changed from 10 days). 	<ul style="list-style-type: none"> • Wind communication model
M21	Rules and Procedures for Determination of Generating Capability [m21] "Green Book" provides uniformity for planning, operating, accounting and reporting purposes.signatories to the Operating Agreement of the PJM Interconnection.	9	1-May-10		N/A
M36	System Restoration [m36] System Restoration is one of a series of manuals within the PJM Energy Market Set of Manuals that focuses on how PJM and the PJM Member Companies will respond to system disturbance conditions and/or system blackout situations.	12	1-Jan-10	Annual Review upcoming	Annual Review changes / RC updates
M37	Reliability Coordination [m37] focuses on PJM authority, responsibility and duties as Reliability Coordinator and how PJM Members are expected to respond. The manual discusses requirements to monitor facilities, how PJM defines and monitors System Operating Limits (SOL) and an Interconnected Reliability Operating Limit (IROL), implementation of Transmission Loading Relief (TLR) procedures, and PJM's coordination efforts with neighboring Reliability Coordinators.	6	1-Jan-10		N/A
M38	Operations Planning [m38] focuses on the PJM processes of coordinating seasonal assessments, the reporting, analyzing and approving generation and transmission outages, and coordinating the analysis results with PJM members and external Reliability Coordinators.	4	1-Jan-10		N/A
M39	Nuclear Interface Manual [m39]	1	1-Apr	<p>Manual 39: Plant Specific NPIR Revision History</p> <p>Section 2.1: Outage Coordination – modified language to clarify outage coordination process.</p> <p>Section 2.3: Notification for Loss of Calculation Capability – added 30 minute timeframe to notify Nuclear Station of loss of EMS.</p> <p>Section 2.4.1: Communications – modified language to clarify real-time communication process.</p> <p>Section 2.6 System Restoration – highlighted urgency if the nuclear plant has lost both offsite and onsite AC power</p> <p>Attachment C: Plant Specific NPIR Revision History – updated to include approval date for plant specific Nuclear Plant Interface Requirements.</p>	<ul style="list-style-type: none"> • Section 1.1: Background – updated reference to manuals. • Section 2.1: Outage Coordination – updated maintenance notification requirements for facilities impact Nuclear Plant or off-site station light and power source. • Attachment B: Updated Peach Bottom NPIR to reflect new Cooper 230kV substation between Nottingham and Graceton. • Attachment C: Updated Peach Bottom NPIR revision.
M40	Certification and Training Requirements [m40]	10	23-Jun-10	Annual Review of Manual; Adding additional detail to Section 1.4 Compliance Monitoring of Certification Adding additional clarity to Section 2.6 Training Requirements for DR Resources Supplying Regulation or Synchronized Reserve; New Section 2.7 Training Requirements for Storage Resouces Supplying Regulation or Synchronized Reserve. Miscellaneous clarifying changes to Section 4	N/A
M41	Interchange	3	24-Nov-08	Update sections for NAESB changes	N/A