

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	<ul style="list-style-type: none"> • add "SIS Outage Process" to Manual • Updated language in Section 4.2.3 for 3 part communications and use of the term "directives" with the new DEFINITION • Section 2.7 - change to within 2 hours • Update Attachment B Data Submittals • add language for Transmission owner notification to PJM of EMS / SE outage 	Updates to Attachment C to correspond with secure website for transmission owner requirements Annual Review Draft procedures for PJM handoff to member companies under catastrophic failure scenario
M03	Transmission Operations [m03] discusses specific transmission conditions and procedures for the management of Transmission Facilities within the PJM Control Area.	36	1-Jan-10	<ul style="list-style-type: none"> • update the "time to initiate actions" tables • edit language for post contingency high voltage control • add reference to AEP BES facilities (TOP-004 R1) • edit language for post contingency high voltage control • add language for voltage schedule exemption (VAR-001/002) 	Annual Review Updates to sections on relay maintenance to provide additional clarity
M03a	Energy Management System Model Updates and Quality Assurance [m3a] These documents are the primary source for specific requirements and implementation details	4	5-May-09		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.
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	<ul style="list-style-type: none"> • add language for changes to winter capacity testing requirement 	
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.	44	1-Jan-10		
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		Annual Review IRC Changes

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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	<ul style="list-style-type: none"> Update Section 5.5 – IROL Load Dump Procedure Update Attachment N – IROL Load Dump Table (Dover, Vineland, etc.) Update DSR language (Long and Short Lead time) Update DASR language to 6.88% 	Annual Review 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).
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.	17	1-Jan-10	<ul style="list-style-type: none"> add language for voltage schedule exemption (VAR-001/002) section 7.1.2 GOs should not be permitting their fuel inventory for Critical Blackstart CTs to fall below 10 hours. If they do, they should notify PJM and we should place in Max Emergency. 	Consolidate Reactive Testing procedures, eliminating redundancy.
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.	8	1-Jan-10	<ul style="list-style-type: none"> add language for changes to winter capacity testing requirement 	
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	<ul style="list-style-type: none"> GOs should not be permitting their fuel inventory for Critical Blackstart CTs to fall below 10 hours. If they do, they should notify PJM and we should place in Max Emergency. 	Annual Review
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		
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		
M39	Nuclear Interface Manual [m39]	0	1-Apr		Manual 39: Plant Specific NPIR Revision History Section 2.1: Outage Coordination – modified language to clarify outage coordination process. Section 2.3: Notification for Loss of Calculation Capability – added 30 minute timeframe to notify Nuclear Station of loss of EMS. Section 2.4.1: Communications – modified language to clarify real-time communication process. Section 2.6 System Restoration – highlighted urgency if the nuclear plant has lost both offsite and onsite AC power Attachment C: Plant Specific NPIR Revision History – updated to include approval date for plant specific Nuclear Plant Interface Requirements.
M40	Certification and Training Requirements [m40]	9	1-Jan-10	<ul style="list-style-type: none"> add language for NERC certification requirements for PJM Transmission owner operators 	
M41	Interchange	3	24-Nov-08		Update sections for NAESB changes