

Effective Date	09/29/2017
Impacted Manual #(s)/Manual Title(s):	
3A: Energy Management System (EMS) Model Updates and Quality Assurance (QA)	
Conforming Order(s):	
N/A	
Associated Issue Tracking Title:	N/A
Committee Approval Path - What committee(s) have already seen these changes?	
DMS, SOS	
MRC 1st read date:	08/24/2017
MRC voting date:	09/28/2017
Impacted Manual sections:	
1.3, 2.2, 3.2, 3.3, 3.5, 4.4, 4.8, Appendixes A, C, E, F	
Reason for change:	
<ul style="list-style-type: none"> • 2016 Periodic Review • Outline of process to convert CB to Flow CB • Reorder of Section 3.2 for better readability and flow • Identified need to submit supplemental projects to Planning • Updates to Network Model Submission details to reflect eDART functionality updates • Outlined tools and processes available for TO review of PJM model update to ensure consistency • Changed EHV Modeling Section (3.2.1) to a Note within Section 3.2 • Created replacement Section 3.2.1 focusing on external modeling criteria with new Sub-Section 3.2.1.1 focusing on criteria for determining what equipment would need to be added to the PJM EMS model in the event of a pseudo-tie addition <ul style="list-style-type: none"> ○ Referenced Manual 12, Attachment F for pseudo-tie consideration requirements • Explained generator naming requirements • Added additional clarity on PJM EMS model update submission requirements for tie-line including a new exhibit (Exhibit 8: Tie Line Update Timeline) pictorial demonstrating timeline requirements 	

Summary of the changes:

- Cover to Cover Periodic Review
- Non-substantive changes to format and references
- References: eDART Training Presentations link updated
- Section 1.3: Link added for online training presentations on model update related processes & procedures
- Section 2.2: Note added to address process to change to Flow CB
- Section 3.2:
 - Content reordering and reformatting for improved readability and flow
 - Reference note added to Appendix E: Checklist for New Equipment Energization Process
 - Referenced Manual 14B and online training for Supplemental Upgrades submission to PJM Planning
 - Updated list of required items needed for Network Model update submissions
 - Note added for Exhibit C1 outlining which facilities require ratings
 - Details added about process to link Network Model Requests to associated Cut-in Transmission Outage Tickets
 - Details outlined for areas needing TO review in line with the model update process
 - Removed EHV Modeling as separate section (formerly 3.2.1) and made as Note in Section 3.2
 - Exhibit 5 moved from Section 3.2.1 to Section 3.2
 - New Section 3.2.1 - External Modeling
 - Moved external modeling specific verbiage from Section 3.2 to new Section 3.2.1
 - New Section 3.2.1.1 - Pseudo Tie Modeling used to identify PJM model update need for approved pseudo-ties
 - Points to Manual 12 for Pseudo-Tie consideration requirements
- Section 3.5: Clarification added to generator unit naming requirements
- Section 3.3: Updated to reflect capability to enter ratings for flow breakers.
- Section 4.4:
 - Elaboration added on Tie Line process; reference added to M01, Attachment D: Tie Line Meter Placement and Telemetry
 - New Exhibit 8: Tie Line Update Timeline added
 - Exhibit numbers updated per insertion of new Exhibit 8
- Section 4.8: Updated DMS parent committee & meeting occurrences
- Appendix A: Title changed to 'TERM Equipment Ratings Update Process'
- Appendix C: Reference to NERC BES process and PJM white paper changed to a Note
- Appendix E: Note added with references to Manual 14B and Manual 14C
- Appendix F: Acronyms & Descriptions updated