

Summary of M-03A Rev. 10 Changes

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MRC

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- Section 1.4: Updated to point to Manuals 3 and 37 as source for operating guidelines and system limitation processes and procedures.
- Section 1.6 Real-Time Telemetry Data Requirements for System Reliability: Change 34 kV references to 69 kV.
- Section 3.2: Identified energization date for submission dates, for phased project updates. Also cleaned up and simplified language around model build types.
- Section 3.5 Naming Conventions: added SC: Synchronous Condenser to list of units.

- Section 4.3: New Exhibit 7 One-line Diagram Symbols
- Section 4.9: New Sub-Transmission (50 kV < 100 kV, BES & non-BES) modeling section added
 - Re: 50 kV < 100 kV, BES & non-BES equipment
 - TO staff to perform justification and analysis to aid PJM modeling & RTEP inclusion determination as a function of BES impact
 - Alignment to Tariff Facilities and BESNet update related processes & procedures
- Combined sub-section 5.2.1 and 5.2.2; renamed section 5.2
- Section 6: Data Interfaces - No member-related business processes tied to this section.

- Appendix A - TERM section revised/updated.
 - Appendix flow completely revamped to step from highest level (including background) down to low level details of rating submittal/review/implementation/closeout process
 - New Exhibit A1 - TERM Ticket Submission Process
 - New Exhibit A2 - Examples of TERM ticket submissions (Permanent and Temporary) and resulting status changes.
 - New Exhibit A3 - Sample TERM Bulk Upload file.
 - Reference to M-03 Section 2.1.1 for detailed rules on Load Dump ratings
 - Rating update request timeline simplified to only five business days prior
- Appendix C: Exhibit C1 table updated with clearer version of the same table of types of monitored equipment
- Appendix D: Two acronyms added to table (IROL, SOL)

Appendix

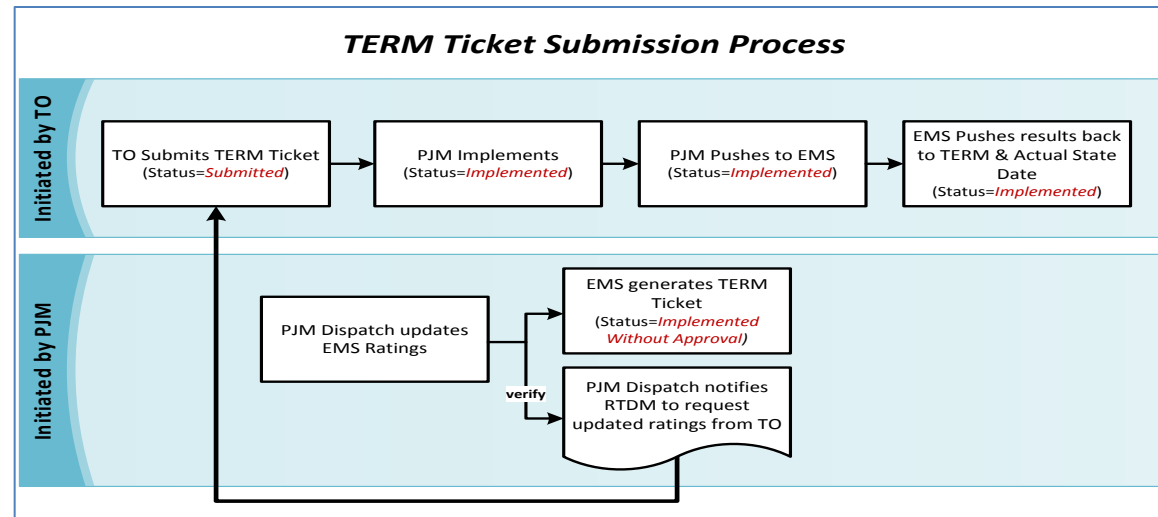
New Section 4.9 Additional Details

- TO staff to perform justification and analysis
- PJM staff to provide updates in the EMS quarterly process and RTEP process.
- PJM staff to coordinate non-BES nominated sub-transmission facility additions on case-by-case basis.
- Collaboration on revised BES designations and Compliance Bulletin 014.
 - New BES flag in Tariff Facilities reports (incl. Exhibits 11 & 12)

1. 69 KV Network, in an area surrounded by BES source stations.
2. 69 KV network as backbone modeling considerations
3. Sub-Transmission modeling complexities - external company considerations

Appendix A Revision Additional Details

- Exhibit A1 added to outline submission process from both TO and PJM Dispatch initiation points with how implemented through EMS and TERM
 - Details separately provided identifying related process of “PROC_BRIDGE” ticket creation



- Expanded explanation of bulk rating submission process with sample file (Exhibit A3)

TEMPERATURE_ VALUE	DAY_ NIGHT	NORMA L	LONG_ TERM	SHORT_ TERM	LOAD_ DUMP	B3_ TEXT	PSEE_ STATION_A	PSEE_ STATION_B	PSEE_ID	VOLTAGE	END_ VALUE	Norm Limiting	LTE Limiting	STE Limiting	LD Limiting
95	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.00	STATIONB 138.00	1	138	END A	80	80	80	80
95	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.01	STATIONB 138.01	1	138	END A	80	80	80	80
86	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.02	STATIONB 138.02	1	138	END A	80	80	80	80
86	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.03	STATIONB 138.03	1	138	END A	80	80	80	80
77	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.04	STATIONB 138.04	1	138	END A	80	80	80	80
77	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.05	STATIONB 138.05	1	138	END A	80	80	80	80
68	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.06	STATIONB 138.06	1	138	END A	80	80	80	80
68	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.07	STATIONB 138.07	1	138	END A	80	80	80	80
59	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.08	STATIONB 138.08	1	138	END A	80	80	80	80
59	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.09	STATIONB 138.09	1	138	END A	80	80	80	80
50	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.10	STATIONB 138.10	1	138	END A	80	80	80	80
50	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.11	STATIONB 138.11	1	138	END A	80	80	80	80
41	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.12	STATIONB 138.12	1	138	END A	80	80	80	80
41	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.13	STATIONB 138.13	1	138	END A	80	80	80	80
32	day	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.14	STATIONB 138.14	1	138	END A	80	80	80	80
32	night	9999	9999	9999	9999	EQUIPMENT NAME	STATIONA 138.15	STATIONB 138.15	1	138	END A	80	80	80	80

- Removed statement regarding preference to have line ratings submitted by first day of month prior to month of change and ratings considered late if not submitted ten business days in advance
 - Note: Requirement remains for submissions to be made five business days prior
- Reference made to M-03 Section 2.1.1 for detailed rules on Load Dump ratings

- Exhibit A2 added to identify how current effective ratings determined as a function of tickets submitted
- Details provided on current effective rating postings to OASISWeb

