Manual M14B Cover To Cover Review

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Transmission Planning
Special PC: Manual 14B Load and Generator Deliverability
January 18, 2019
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• Minor changes throughout manual mainly to make terminology more consistent
• Revision to Section 1A on CEII
• Attachment C Revisions
  – Phase 1 of 2: Included all changes to load deliverability procedure
  – Phase 2 of 2: Updated generator and long-term deliverability procedures
• Changes to reflect slight change in Request Submittal process
  – PJM.com account now required
  – CEII NDA filled out once and retained in PJM.com login data
  – Request Form prepopulates with most data requested on old form
• Update reference to PJM.com CEII pages
Purpose of Attachment C Changes

• Make the deliverability procedures more transparent and easier to follow for stakeholders
  – Remove superfluous language and add clarification
  – Restructure confusing sentences and correct grammar mistakes
• Correct any conflicts between how the procedures are described and how PJM actually implements them
• Make a handful of procedural changes to the load deliverability test
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Procedural Changes To Load Deliverability Procedure

- Added language that non-radial facilities 345 kV and up will only automatically be considered as CETL limits for an LDA if they have greater than a 2% OTDF
- Clarified that PJM may choose to include specific non-PJM transmission facilities in the load deliverability test in order to account for significant loop flows
- Removed sentence that states that Load Deliverability Facility List will be locked down prior to each baseline
- New procedure added to require both thermal and voltage analysis on both Discrete Outage Case and Mean Dispatch Case
- Removed steps 7, 8 and 9 from section C.5.5.2 and removed section C.6 entirely
• Firm transmission service must be coordinated with the applicable PJM neighboring region, consistent with the MMWG/ERAG process. PJM introduced this to the TEAC in January 2018 as part of the 2023 RTEP assumptions.

• Higher than normal CIRs may be granted to wind units when justified by meteorological data.

• Units with FSAs will only be added to the base case if there are not enough existing units and units with ISAs. Also, per section C.4, if units with FSAs are not required to be included in the base case a sensitivity study will be performed to examine if long-lead time upgrades are required to support them.

• Flowgates near the border of PJM will continue to be examined to better understand deliverability concerns that may exist due to loop flows.

• Facility Loading Adder Restrictions were organized better and clarifications added.
Clarifications to Addendums 1 Through 3

- **Addendum 1**
  - From a modelling perspective, Merchant Transmission Facilities (MTFs) with long-term firm transmission service are treated the same as MTFs with Firm Transmission Withdrawal Rights.

- **Addendum 2**
  - Operational contingencies are single contingencies examined under the common mode outage procedure to determine whether system operators would allow the common mode dispatch to occur. This concept has been part of the common mode outage procedure since its inception but was not described in the manual.

- **Addendum 3**
  - Constraints identified in the PJM CIL analysis are studied in the same manner as other internal PJM constraints.
  - The distribution of the CBM from each of the five external supply zones is determined during the annual PJM CIL study.
• If units with FSAs are not required to be included in the base case a sensitivity study will be performed to examine if long-lead time upgrades are required to support them.
• The long-term base case will only be studied if the need for a long-lead time upgrade is identified during the near-term base case analysis extrapolation over years 6 through 15
Timeline

- PC Endorsement (Load Deliverability Procedure Only) – 8/9/2018
- PC First Read (Generator & Long-Term Deliverability Procedures) – 12/13/2018
- MRC First Read – 12/20/2018
- PC Endorsement (Generator & Long-Term Deliverability Procedures) – 1/10/2019
- PC Special Session – 1/18/2019
- Request for MRC Endorsement – 1/24/2019