M14B Updates

Michael Herman
Transmission Planning
Planning Committee
August 10, 2017
• Two separate sets of updates to PJM Manual 14B – PJM Region Transmission Planning Process

1. Update Attachment B.3, C.3, C.5, G.11 per termination of ConEd Wheel Agreement and procedural updates for CETO/CETL analysis

2. Update Attachment G.7, H.1, J per changing PJM Planning Contact information
Updates for Termination of ConEd Wheel

- PJM Manual 14B included procedural language around PJM/NYISO par flows and the analytical treatment and modeling of the ConEd Wheel

- PJM has updated M14B to include the update procedures as agreed upon via PJM Stakeholder discussions
• Removed duplicate sentence in Attachment B.3

• Updated language (Blue text = original change, red text = new change) in Attachment G.11 to clarify that all Capacity Import Limit test uses both firm and non-firm transactions for all zones included in testing
Definition and Procedural changes to CETL

• Capacity Emergency Transfer Limit (CETL)
  – Validate deliverability of PJM capacity resources to PJM Load, CETL specifically verifies that the objective (CETO) can be met
  – Only firm transmission service will be used in these calculations

• Procedural changes:
  – Modeling on PJM/NYISO PAR Flows
  – Adjacent non-PJM areas not available to supply energy during this calculation
Procedural change CETL values

- With the exception of the NY interface, PJM has not been able to rely on external support (due to external constraints) in recent RTEP cycles.
- With proposed procedural changes, only NY interface related CETL values are impacted.
- Changes in CETL values (based on PJM sensitivity study) are due to both wheel replacement protocols and assumptions regarding imports.

<table>
<thead>
<tr>
<th>LDA</th>
<th>CETO</th>
<th>CETL - Status Quo</th>
<th>CETL - Proposed Revisions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMAAC</td>
<td>3,650</td>
<td>8,800</td>
<td>8,300</td>
</tr>
<tr>
<td>MAAC</td>
<td>-7,000</td>
<td>4,218</td>
<td>3,118</td>
</tr>
<tr>
<td>PSEG</td>
<td>5,900</td>
<td>8,001</td>
<td>6,474</td>
</tr>
<tr>
<td>PS North</td>
<td>2,620</td>
<td>4,264</td>
<td>2,955</td>
</tr>
</tbody>
</table>
Definition and Procedural changes to CIL

• Capacity Import Limit (CIL) Calculation
  – Procedure to establish the amount of power that can be reliably transferred to PJM from defined regions external to PJM.

• Procedural change:
  – Modeling on PJM/NYISO PAR Flows
  – Imports into PJM will be comprised of a combination of firm transmission service reservations and non-firm energy purchases from the external supply region
Zones utilized in CIL study

- Northern Zone: NYISO & ISO NE
- Western Tier 1 Zone: MISO East, MISO West & OVEC
- Western Tier 2 Zone: MISO Central & MISO South
- Southern Tier 1 Zone: TVA & LGEE
- Southern Tier 2 Zone: VACAR (non-PJM)
Updates for Planning Contacts

- PJM Manual 14B Attachments G, H and J include language and contact information for specific departments within PJMs Planning Division.

- The System Planning Modeling group now has responsibilities for certain functions that were previously assigned to Transmission Planning.

- These Manual updates reflect the current responsibilities and contact information within the Planning Division.
• PC First Read – 7/13/2017
• MRC First Read – 7/27/2017
• PC Endorsement – 8/10/2017
• MRC Endorsement – 8/24/2017
Please email all questions or comments to RTEP@pjm.com