



Planning Manual Updates for ER24-99

Planning Committee

April 30, 2024

New	Phasing Out	Clean-up
Manual 20A Manual 21B	Manual 20 Manual 21 Manual 21A	Manual 14B



Changes associated with PJM's CIFP Filing

- Following slides summarize changes approved in PJM's CIFP Filing (ER-24-99) to become effective with the 25/26 DY
- Manuals 20, 21, 21A are effective through the 24/25 DY after which they will expire.
- Manual 20A and 21B will be effective starting with the 25/26 DY.
- Categories of changes:
 1. Reliability Risk Modeling & Procurement Targets
 2. Capacity Accreditation



Reliability Risk Modeling & Procurement Targets

Summary of Changes	Relevant Tariff/RAA Sections	Relevant Manual Sections
<p>Hourly resource adequacy model and the associated inputs</p> <p>Simulated output of resources and the considerations for binning</p> <p>Calculation of Loss of Load Expectation (LOLE) and Expected Unserved Energy (EUE)</p> <p>Calculation of the Installed Reserve Margin, Accredited UCAP Factor, and Forecast Pool Requirement</p> <p>Pool-wide average Accredited UCAP Factor replaces Pool-wide average EFORd in FPR determination</p> <p>Change to CETO Definition</p>	<p>RAA Definitions CETO, Reliability Principles and Standards, Portfolio Expected Unserved Energy</p> <p>RAA Schedules 4 and 4.1: Development of the Forecast Pool Requirement (FPR) Guidelines and data considered in the reliability risk analysis and development of the FPR; conversion between the Installed Reserve Margin (IRM) and FPR</p> <p>RAA Schedule 4.B Forecast Pool Requirement and PJM Region Installed Reserve Margin To Be Determined Annually</p> <p>RAA Schedule 9.2: ELCC Analysis / Accreditation (new section) Data and methodologies describing the risk modeling used in the ELCC analysis</p>	<p>Manual 14B 2.3.9 Load Deliverability Analysis C.2.1.4 General Procedures C.2.4 Capacity Emergency Transfer Objective (CETO) Procedure C.2.5 Capacity Emergency Transfer Limit (CETL) Procedure</p> <p>Manual 20A All sections IRM/FPR – Section 2 CETO – Section 3</p>

Summary of Changes	Relevant Tariff/RAA Sections	Relevant Manual Sections
<p>ELCC approach used for all Generation Capacity Resources and DR in accordance with RAA, Schedule 9.2</p> <p>UCAP Value of Generation Capacity Resource = ICAP * Accredited UCAP Factor</p> <p>Calculation and application of the resource performance adjustment</p> <p>New Defined Term Added: "Accredited UCAP Factor"</p> <p>UCAP Value of DR = nominated value times applicable ELCC Class Rating</p> <p>Winter Verification test is required</p>	<p>RAA Definitions ELCC Resource, various ELCC class definitions, Accredited UCAP Factor, etc.</p> <p>RAA Schedules 9 / 9.2: ELCC Analysis / Accreditation (new section) Overview of the ELCC analysis and the determination of Accredited UCAP for all generation resource types and DR</p> <p>RAA Schedule 5: Forced Outage Rate Calculation Application of EFORD / Pool-wide Average EFORD updates (discontinue)</p> <p>RAA Schedule 6: Procedures for Demand Resources Update to determination of UCAP value for DR</p> <p>OATT Attachment DD § 7: Generation Resource Rating Test Failure Charge</p>	<p>Manual 20A Section 2 –Reserve Requirement Study (RRS) and Effective Load Carrying Capability (ELCC) Study</p> <p>Manual 21B Section 2 – ELCC Classes Section 3 – ELCC Results Posting Schedule Section 4 - Calculation of ELCC Class Rating, ELCC Resource Performance Adjustment, Accredited UCAP, and Accredited UCAP Factor Section 7 – Determination of Effective Nameplate Section 8 – Data Submission Requirements Section 10 – Testing Requirements</p>

Monthly Timeline for Manual Updates for Conducting the 2025/2026 BRA

Apr. – May 2024

May. – Jun. 2024

Jul. 2024

Jul. – Dec. 2024

First read at:

- MIC – M18
- PC – M20, M21, M21A, M21B, M14B
- MRC – All

Endorsement Vote at:

- MIC – M18
- PC – M20, M21, M21A, M21B, M14B
- MRC – All

2025/2026 Base
Residual Auction

Update PJM Manual
changes for the
remainder of ER24-99
changes

- Proposed timeline is for the PJM Manual updates applicable to the conduct of the 2025/2026 BRA. (e.g. changes associated with planning parameters and resource accreditation, etc.)
- Additional PJM Manual changes will be presented in the second half of 2024.

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Planning Manuals Updates for ER24-99



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