

# Phase 2: Conforming Manual Updates for ER24-99

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Phase 2 of the conforming Manual updates, due to the CIFP-RA filing (ER24-99), are grouped into three topics, and affect four PJM Manuals

Summer/Winter Capability Testing	Generation Operational Testing	Dual Fuel Attestation Energy Offer Requirement
Manual 18	Manual 14D Manual 18 Manual 28	Manual 11



# Overview of Changes Associated with PJM's CIFP Filing

Topic	Manual	Tariff and Filing Discussion	Overview
Summer/Winter Capability Testing	M-18	OATT Attachment DD § 7	<ul style="list-style-type: none"><li>• Clarifications for daily ICAP commitment level</li><li>• Determination of UCAP Shortfall</li><li>• Generation Resource Rating Test Failure Charges</li><li>• Allocation of deficiency and penalty charges</li></ul>
Generation Operational Testing	M-14D M-18 M-28	OATT Attachment DD § 7A	<ul style="list-style-type: none"><li>• How PJM will initiate a Generation Operational Test</li><li>• Calculation of Generator performance during the test</li><li>• How the resource will be reimbursed or penalized</li></ul>
Dual Fuel Attestation Requirements	M-11	ER24-99-001 Deficiency Response C.4.a	<ul style="list-style-type: none"><li>• Requirement to offer both fuel sources into the energy market</li></ul>

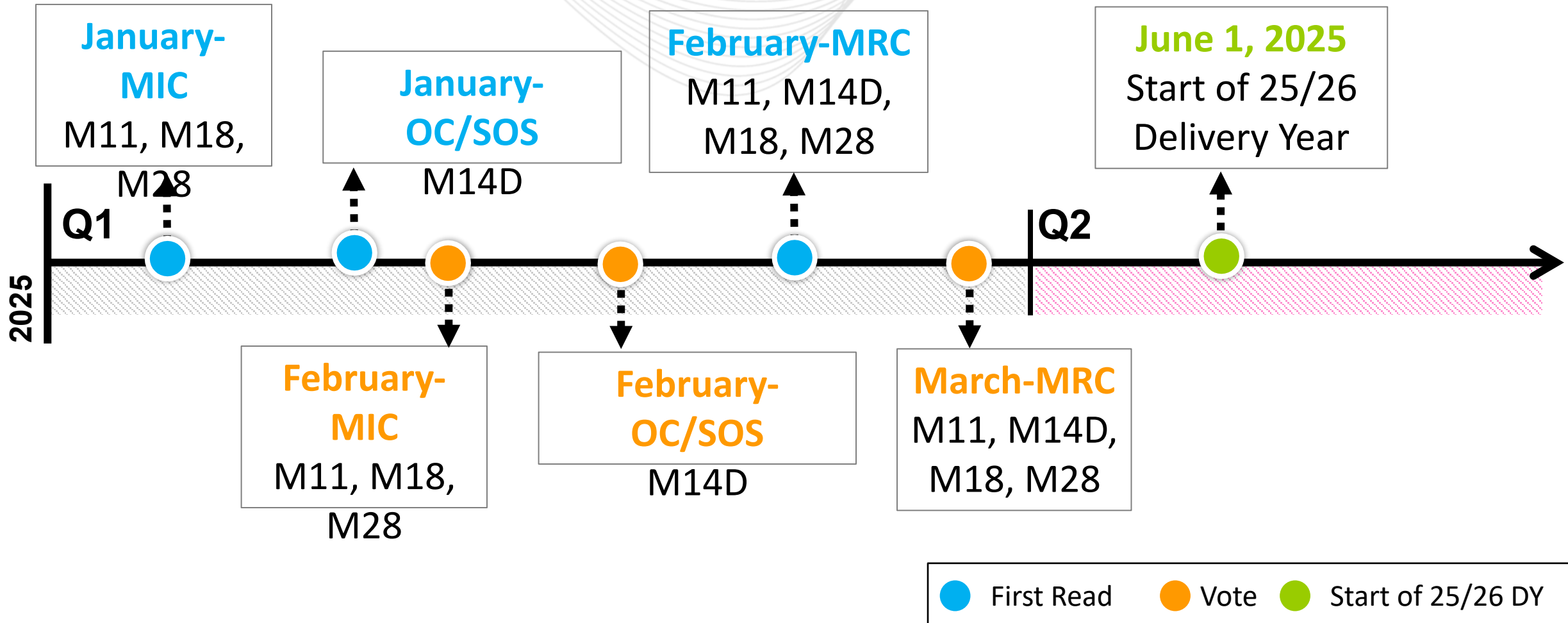
Summary of Changes	Tariff and Filing Discussion	Relevant PJM Manual Sections
<p>Clean up for table of relevant assessments by resource type</p> <p>Current calculation for commitment level, Unit ICAP shortfall, and Generation Resource Rating Test Failure Charge sunset with the 2024/2025 Delivery Year</p> <p>Updated references to include M-21B</p> <p>Updated total daily ICAP commitment level is determined each day effective with the 2025/2026 Delivery Year</p> <p>Effective with 25/26, Generation Resource Rating Test Failure Charge is the DDR x Provider's Daily ICAP Shortfall converted to UCAP terms using resource's final Accredited UCAP Factor for the Delivery Year</p>	<p>OATT Attachment DD § 7</p>	<ul style="list-style-type: none"> <li>• <b>M-18 8.1</b> – Overview of Resource Performance Assessments</li> <li>• <b>M-18 8.3</b> – Commitment Level Used in Summer/Winter Capability Tests (through the 2024/2025 Delivery Year)</li> <li>• <b>M-18 8.5</b> – Summer/Winter Capability Testing</li> <li>• <b>M-18 8.5.1</b> – Determination of Unit ICAP Shortfall (through the 2024/2025 Delivery Year)</li> <li>• <b>M-18 8.5.2</b> – Determination of Unit ICAP Shortfall (Effective with the 2025/2026 Delivery Year)</li> <li>• <b>M-18 9.1.5</b> – Generation Resource Rating Test Failure Charge</li> </ul>



# Generation Operational Testing

Summary of Changes	Tariff and Filing Discussion	Relevant PJM Manual Sections
<p>Test applies to Generation Capacity Resources, with the exception of Variable Resources</p> <p>Applicable daily committed UCAP MW considers RPM/FRR commitments, differences between energy and capacity market modeling, and multiple owners</p> <p>RPM Daily Generation Operational Test Failure Charge is equal to <math>DDR \times (\text{Applicable Daily Committed UCAP} - \text{Daily RPM Commitment Shortage})</math></p> <p>FRR Daily Generation Operational Test Failure Charge is equal to <math>DDR \times \text{Applicable Daily FRR Committed UCAP MW}</math></p> <p>Generation Capacity Resources are eligible for Operating Reserves for each initial test but are ineligible for a retest following a failed initial test</p> <p>Summer testing season is defined as May through October, and winter testing season is defined as November through April</p> <p>PJM may select any committed Generation Capacity Resource, without the requirement to test all committed resources</p> <p>Generation Operational Tests are unannounced tests, in which PJM will utilize the offer parameters in the selected schedule to evaluate performance</p> <p>The time from resource commitment to unit breaker close must be less than or equal to the (Notification Time plus Start Up Time) plus the greater of 10 minutes or 10% of the Time to Start, and the resource must operate for at least the Minimum Run Time to pass the Generation Operational Test</p> <p>Resources that fail the initial test may be subject to a re-test at PJM's discretion, with the same evaluation criteria</p> <p>Generation Operational Test Failure Charge will be assessed daily starting with a failed retest and stop once the resource successfully starts and synchronizes to the grid</p>	<p>OATT Attachment DD § 7A</p> <p>Separate Presentation</p>	<ul style="list-style-type: none"><li>• <b>M-18 8.5A</b> – Generation Operational Testing</li><li>• <b>M-18 9.1.5A</b> – Generation Operational Test Failure Charge</li><li>• <b>M-28 5.2</b> – Credit for Operating Reserve</li><li>• <b>M-28 5.2.1</b> – Credit for Pool-Scheduled Generating Resources</li><li>• <b>M-14D 7.6</b> – Generation Operational Testing</li><li>• <b>M-14D 7.6.1</b> – Resource Selection for Testing</li><li>• <b>M-14D 7.6.2</b> – Test Notification</li><li>• <b>M-14D 7.6.3</b> – Test Evaluation Criteria</li><li>• <b>M-14D 7.6.4</b> – Re-test Process</li></ul>

Change	Tariff and Filing Discussion	Relevant PJM Manual Sections
Capacity Market Sellers that have provided an attestation of dual fuel capability during the winter season for their resources in the Gas Combustion Turbine Dual Fuel Class or Gas Combined Cycle Dual Fuel Class shall meet the must offer requirement by having an available schedule for the primary fuel and an available schedule for the alternative fuel for scheduling by PJM on such alternative fuel during the winter season, <b>within operational limitations due to energy or environmental limitations imposed on the generating unit by Applicable Laws and Regulations</b> . When the resource is not capable of operating on such alternative fuel during the winter season, the resource shall follow the requirements in M10, Section 2: Generation Outage Reporting.	ER24-99-001 Deficiency Response C.4.a	<ul style="list-style-type: none"> <li><b>M-11 2.3.3.1 – Capacity Resource Offer Rules</b></li> </ul>



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