

Phase 2: Conforming Manual Updates for ER24-99

Skyler Marzewski Market Design Market Implementation Committee February 5, 2025

www.pjm.com | Public PJM © 2025



Aligned language between 8.5A and 9.1.5A for applicable daily RPM committed UCAP MW.

8.5A Generation Operational Testing

Effective with the 2025/2026 Delivery Year, Generation Capacity Resources, with the exception of Variable Resources, that are committed to RPM or FRR shall be subject to operational testing initiated by the Office of the Interconnection up to two times in each of the summer and winter seasons during the relevant Delivery Year. The operational testing requirements, retest requirements, and determination of when a shortfall is assessed are found in Generator Operational Requirements Manual (M14D).

When a unit fails a retest of the Generation Operational Test, a Generation Operational Test Failure Charge may be assessed. The Generation Operational Test Failure Charge shall equal the Daily Deficiency Rate multiplied by the applicable daily committed UCAP MW of such Generation Capacity Resource.

The applicable daily committed UCAP MW value subject to the Generation Operational Test Failure Charge will account for:

- any RPM and FRR commitments on the unit:
- any unit modeling differences that may exist between the energy market and capacity market; and
- any portions of the unit that were committed by multiple Capacity Market Sellers, provided. however, a Capacity Market Seller shall not be assessed a Generation Operational Test Failure Charge to the extent (i.e., for the same megawatts and time period) that such seller is assessed a Capacity Resource Deficiency Charge for such resource.

The Daily Deficiency Rate shall equal the value defined in section 9.1.5A

9.1.5A Generation Operational Test Failure Charge

The Generation Operational Test Failure Charge is applicable to all generation resources (with the exception of Variable Resources) committed to RPM or FRR that fail the Generation Operational retest in accordance with Manual 14D.

The Daily Generation Operational Test Failure Charge applicable to RPM commitments shall be equal to the Daily Deficiency Rate times (the applicable daily RPM committed UCAP MW of that Generation Resource minus any Daily RPM Commitment Shortage being assessed

RPM Daily Generation Operational Test Failure Charge = DDR × (Applicable Daily RPM Committed UCAP MVI - DailyRPMCommittmentShortage

Updated

9.1.5A Generation Operational Test Failure Charge

The Generation Operational Test Failure Charge is applicable to all generation resources (with the exception of Variable Resources) committed to RPM or FRR that fail the Generation Operational retest in accordance with Manual 14D.

The Daily Generation Operational Test Failure Charge applicable to RPM commitments shall be equal to the Daily Deficiency Rate times the applicable daily RPM committed UCAP MW of that Generation Resource.

RPM Daily Generation Operational Test Failure Charge = DDR x Applicable Daily RPM Committed UCAP MW



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	 Clarifications for daily ICAP commitment level Determination of UCAP Shortfall Generation Resource Rating Test Failure Charges Allocation of deficiency and penalty charges
Generation Operational Testing	M-14D M-18 M-28	OATT Attachment DD § 7A	 How PJM will initiate a Generation Operational Test Calculation of Generator performance during the test How the resource will be reimbursed or penalized
Dual Fuel Attestation Requirements	M-11	ER24-99-001 Deficiency Response C.4.a	 Requirement to offer both fuel sources into the energy market



Summer/Winter Capability Testing

Summary of Changes	Tariff and Filing Discussion	Relevant PJM Manual Sections
Clean up for table of relevant assessments by resource type	OATT Attachment DD § 7	 M-18 8.1 – Overview of Resource Performance Assessments
Current calculation for commitment level, Unit ICAP shortfall, and Generation Resource Rating Test Failure Charge sunset with the 2024/2025 Delivery Year		 M-18 8.3 – Commitment Level Used in Summer/Winter Capability Tests (through the 2024/2025 Delivery Year)
Updated references to include M-21B		 M-18 8.5 – Summer/Winter Capability Testing
Updated total daily ICAP commitment level is determined each day effective with the 2025/2026 Delivery Year		 M-18 8.5.1 – Determination of Unit ICAP Shortfall (through the 2024/2025 Delivery Year)
Effective with 25/26, Generation Resource Rating Test Failure Charge is the DDR x Provider's Daily ICAP Shortfall converted to UCAP terms using		 M-18 8.5.2 – Determination of Unit ICAP Shortfall (Effective with the 2025/2026 Delivery Year)
resource's final Accredited UCAP Factor for the Delivery Year		 M-18 9.1.5 – Generation Resource Rating Test Failure Charge

www.pjm.com | Public 5



Generation Operational Testing

	111111111111111111111111111111111111111
Tariff and Filing Discussion	Relevant PJM Manual Sections
OATT Attachment DD § 7A	 M-18 8.5A – Generation Operational Testing M-18 9.1.5A – Generation Operational Test Failure Charge M-28 5.2 – Credit for Operating Reserve M-28 5.2.1 – Credit for Pool-Scheduled Generating Resources
M14-D follows the OC and not part of the MIC endorsement process	 M-14D 7.6 – Generation Operational Testing M-14D 7.6.1 – Resource Selection for Testing M-14D 7.6.2 – Test Notification M-14D 7.6.3 – Test Evaluation Criteria M-14D 7.6.4 – Re-test Process
	Discussion OATT Attachment DD § 7A M14-D follows the OC and not part of the MIC



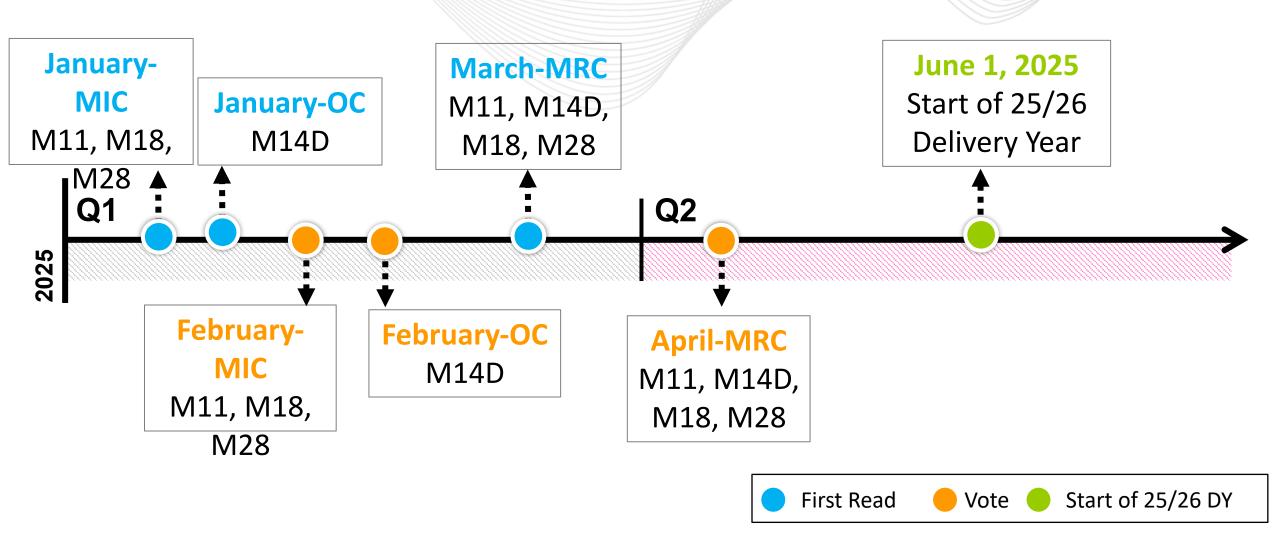
Dual Fuel Attestation Requirements

	100	
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. 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	• M-11 2.3.3.1 – Capacity Resource Offer Rules

www.pjm.com | Public 7 PJM © 2025



Proposed Timeline







Chair:

Foluso Afelumo,

Foluso.Afelumo@pjm.com

Secretary:

Stefan Starkov,

Stefan.Starkov@pjm.com

SME/Presenter:

Skyler Marzewski,

Skyler.Marzewski@pjm.com

Phase 2: Conforming Manual Updates for ER24-99



Member Hotline

(610) 666 - 8980

(866) 400 - 8980

custsvc@pjm.com

