

Fuel Requirements for Black Start Resources Manual 12 Updates

David Hauske Performance Compliance Dept.

Markets & Reliability Committee June 27, 2024



- Fuel Requirements for Black Start Resources (FRBSR) was approved in November, 2022.
- Some items outlined in the approved package matrix were inadvertently not included in previous M-12 updates
- Conforming M-12 changes are required to align with Fuel Assurance package previously approved in the Stakeholder Process



Approved FRBSR Matrix

Fuel Requirements for Black Start Resources PACKAGE/ PROPOSAL MATRIX

Prio ri Status Quo H - PJM / Brookfield / DC OPC	Prio	*
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Onsite fuel, water level, stored energy, Onsite fuel, water level, stored energy, etc., starting systems and non-fuel consumables compensation Medi None Medi None Medi None Black start monthly revenues will be foregone for months in which the fuel inventory is deficient the fuel inventory, water level, stored energy falls below the run hour requirement as the result a regulatory requirement for approved planned outage (full derate) or as a result of operating during a PAI, monthly Black Start revenues will not be withheld.	Onsite fuel, water level, stored energy, etc., starting systems and non-fuel consumables compensation falls below the run hour requirements for any length of a notified within 24 hours. Black start monthly revenues will be foregone for month the fuel inventory, water level, stored energy falls below the run hour requirements for any length of a notified within 24 hours. Black start monthly revenues will be foregone for month the fuel inventory, water level, stored energy falls below the run hour requirements for any length of a notified within 24 hours.	time during any period, PJM must be hs in which the fuel inventory is deficient. If w the run hour requirement as the result of (full derate) or as a result of operating

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Approved FRBSR Matrix

Fuel Requirements for Black Start Resources PACKAGE/ PROPOSAL MATRIX

			Packages	
#+A7:E	Design Components	Prio ri *		H - PJM / Brookfield / DC OPC
4	Fuel inventory verification		Black start CTs reports to PJM dispatch and units are placed in max-emergency when they carry less than 10 hours of fuel (M14d). Some hydro units report pond levels via telemetry.	Fuel Assured units must provide fuel/energy verification to PJM upon PJM request. Fuel/energy level telemetry to PJM is an acceptable form of verification. For natural gas resources, PJM will validate all contractual arrangements for gas supply/delivery. If the on-site fuel inventory of a Fuel Assured black start resource falls below the run hour requirements for any length of time during any period, PJM must be notified within 24 hours.

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Summary of Conforming Changes

- Only M-12 and Black Start Test Form will be updated
- Conforming changes
 - Adding exceptions for lost revenue associated with failure to maintain fuel inventory:
 - Low fuel inventory due to responding to a PAI
 - Tanks out of service due to regulatory inspections
 - Removing 6 month fuel assurance inventory notification requirement from M-12
 - Generators must provide fuel and non-fuel consumable inventory verification upon PJM request
 - Annual verification requirement will be added to Black Start Test form

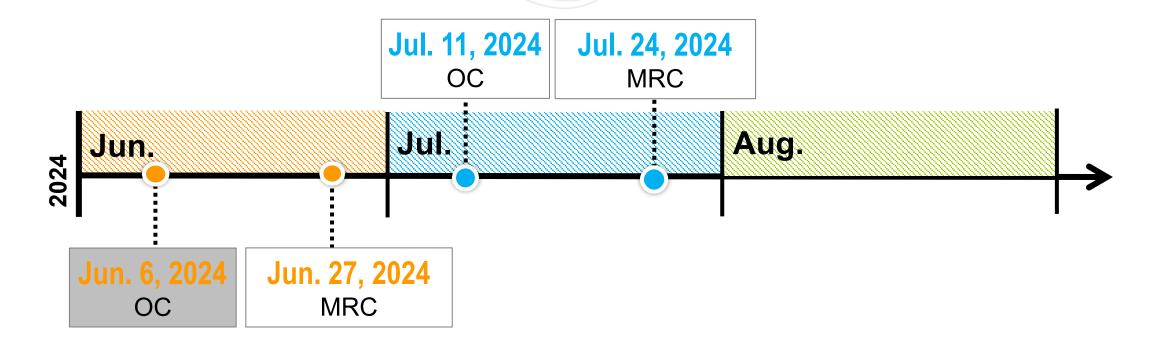
Affected Manual Sections

- The follow sections of Manual 12 will be updated:
 - ➤ Section 4.5.10 Performance Standards
 - Section 4.5.12 Testing
 - ➤ Section 4.5.13 Testing and Training Standards and Records
 - ➤ Section 4.5.14 Non-Performance

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Endorsements



First Reads



Facilitator:

Lisa Drauschak, lisa.drauschak@pjm.com

Secretary:
Dave Anders,
david.anders@pjm.com

SME/Presenter:
David Hauske,
David.Hauske@pjm.com

FRBSR M-12 Updates



Member Hotline

(610) 666 - 8980

(866) 400 - 8980

custsvc@pjm.com

