



<b>Effective Date</b>	10/01/2022
<b>Impacted Manual #(s)/Manual Title(s):</b>	
Manual 10: Pre-Scheduling Operations Manual 14-D: Generator Operational Requirements Manual 18: PJM Capacity Market	
<b>Conforming Order(s):</b>	
None. Pending order in docket No. ER22-1420.	
<b>Associated Issue Tracking Title:</b>	<a href="#">Solar-Battery Hybrid Resources</a>
<b>Committee Approval Path - What committee(s) have already seen these changes?</b>	
Preview 5/31/2022 DER and Inverter-based Subcommittee First Read: 7/7/22 System Operations Subcommittee Endorsement 8/3/22 System Operations Subcommittee First Read 7/14/22 Operating Committee Endorsement 8/11/22 Operating Committee First Read: 6/8/22 Market Implementation Committee Endorsement: 7/13/22 Market Implementation Committee	
<b>MRC 1<sup>st</sup> read date:</b>	8/24/2022
<b>MRC voting date:</b>	9/21/2022
<b>Impacted Manual sections:</b>	
<p><b>MANUAL 10</b> 2.1 Generation Outage Reporting Overview</p> <p><b>MANUAL 14-D</b> Section 4.1.7 – SCADA Section 4.2.3 Metering for Individual Generators Section 7.1.2 Voltage and Reactive Control Section 7.3 eDART reporting Section 8.3.3 LOC rule clarification Section 12.2.4 –outage reporting clarification Add a new Section 13 for Mixed Tech Facilities Attachment D – Reactive Capability Attachment E – Reactive Tests Attachment L – Single MOC</p> <p><b>MANUAL 18</b> Section 4 and 5</p>	
<b>Reason for change:</b>	

Implement manual language conforming to MC-endorsed Tariff filing clarifying rules for Hybrid Resources and Mixed Technology Facilities more generally.

**Summary of the changes:**

**MANUAL 10**

2.1 Generation Outage Reporting Overview – clarify the eDART Reportable MW value for a component of a Hybrid Resource when it experiences an outage.

**MANUAL 14-D**

Section 4.1.7 – clarify that state of charge must be telemetered for Hybrid Resources

Section 4.2.3- specify what and where settlement and telemetry meters are required for Mixed Technology Facilities.

Section 7.1.2 – how to aggregate units at a Mixed Technology Facility for purposes of size thresholds for applicability of voltage schedules

Section 7.3 eDART reporting – how Hybrid Resources must submit outage information

Section 8.3.3 - LOC rule clarification

Section 12.2.4 –outage reporting clarification

Add a new Section 13 for Mixed Tech Facilities, including definitional concepts, classification rules, and applicability of other rules.

Attachment D – Reactive Capability – specify what D-curves will look like for Mixed Technology Facilities.

Attachment E – Reactive Tests – specify how to do reactive testing at Mixed Technology Facilities

Attachment L – Single MOC for the Mixed Technology Facility components.

**MANUAL 18**

Section 4 and 5: apply exemption to Capacity Market must offer rule to certain Hybrid Resources