Synchronous Reserve Response

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Descriptive Title

Action Required	Deadline	Who May Be Affected
Review Problem Statement and Issue Charge	**05/10/2023**	All Stakeholders
Review proposed M-11 language updates	**05/10/2023**	All Stakeholders

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Summary of Concern

- Synchronous Reserve Event duration has increased since the implementation of Reserve Price Formation on October 1, 2022
- NERC Disturbance Control Standard requires Balancing Authorities to restore Area Control Error to pre-event value or above zero within 15-minutes
  - PJM tracks with the goal of recovering within 10-minutes
- Timely response necessary to restore Eastern Interconnection frequency and tie line flows as the source of the loss

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Synchronous Reserve Event Durations

- Event duration for the period January 1 – September 30, 2022:
  - Three of 14 events over 10 minutes
- Event duration for the period October 1, 2022 – present:
  - Four of eight events over 10 minutes

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Proposed M-11 Updates

- PJM proposes to update M-11, Section 4.3
  - Allow PJM to extend the second step of the ORDC daily taking into consideration non-performing resources
  - Allow the addition for on peak and off peak periods
  - Ensure transparency by posting extended values as it is changed

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Synchronous Reserve Response

Member Hotline

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Appendix

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Reference Material

- February MIC Presentation, Synchronized Reserve Performance: https://www.pjm.com/-/media/committees-groups/committees/mic/2023/20230208/20230208-item-10---synchronized-reserve-performance.ashx

- NERC BAL-002-3, Disturbance Control Standard: https://www.nerc.com/pa/Stand/Reliability%20Standards/BAL-002-3.pdf

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