



Synchronized Reserve Event Performance Generator Outreach

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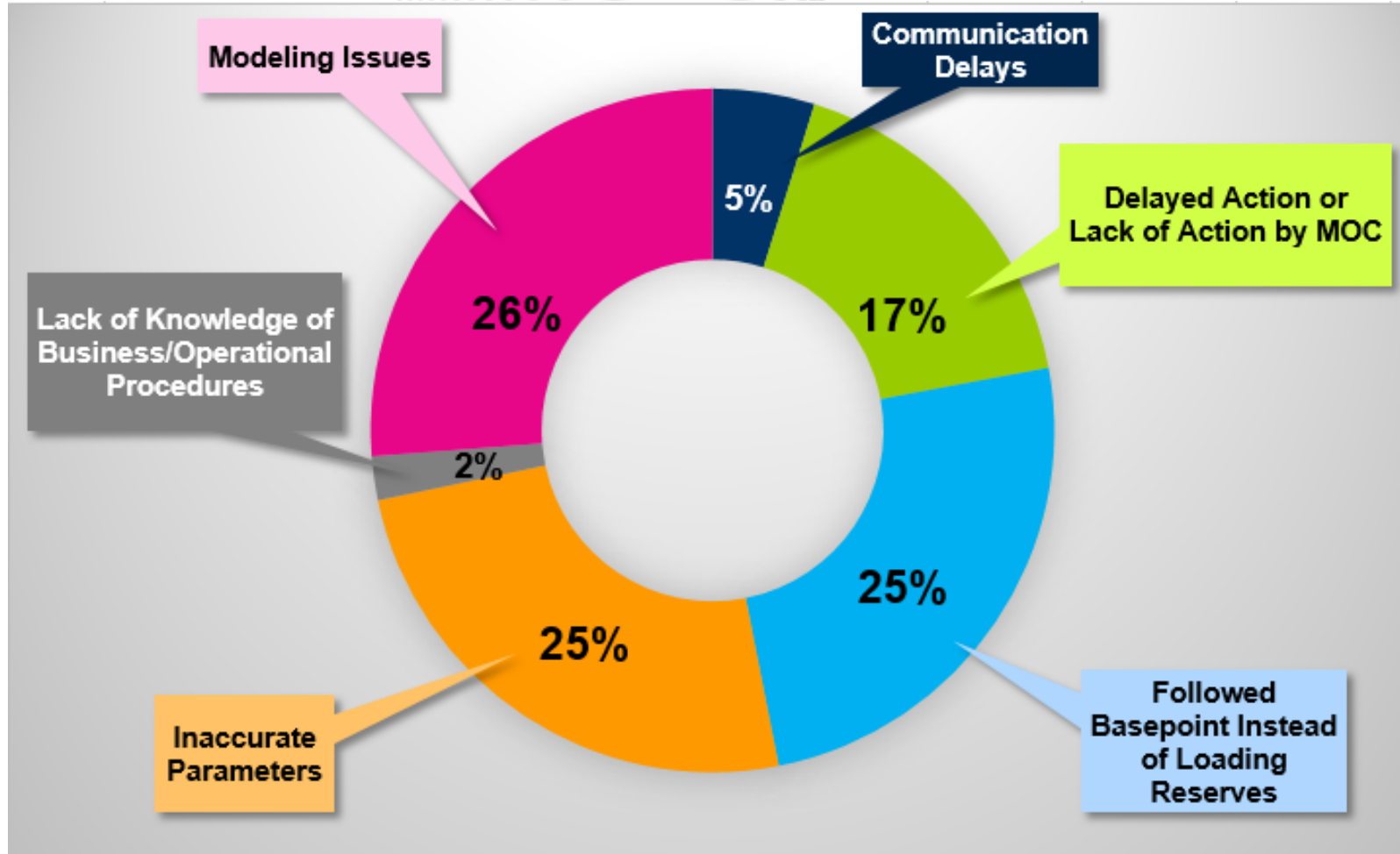
Reserve Certainty Senior Task Force
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- PJM has observed poor performance of assigned resources during synchronized reserve events since the implementation of Reserve Price Formation (RPF) on October 1, 2022
 - As a result, PJM has temporarily increased its reliability requirement by 30% to 130% of the largest contingency to address the performance uncertainty
- PJM & IMM worked together on an outreach plan to generators to better understand the reasons for lack of performance
- The goal of this effort is to improve the performance of assigned resources during synchronized reserve events

- **Delayed Action or Lack of Action by MOC***: Incorrect action or lack of action taken by MOC operator
- **Lack of Knowledge of Business Rules/Operational Procedures**: MOC operator did not know what to do when spin event was called
- **Followed Basepoint Instead of Loading Reserves**: Followed basepoint when unit should've come off Automatic Generation Control (AGC) and fulfilled reserve assignment

*MOC: Market Operations Center

- **Communication Delays:** Delay in receiving All Call or notice from MOC to plant
- **Modeling Issues:** Transition time to put equipment in or out of service impacts ability to respond
- **Inaccurate Parameters:** Either 'Condense to Gen Time' or ramp rates incorrectly reported by the market participant in Markets Gateway





Interim Solutions to Improve Performance

Issue	Remedy
Modeling Issues	<ul style="list-style-type: none">• Request adjustment to Spin Max limit (see FAQ, Part 1 #8-11)
Inaccurate Parameters	<ul style="list-style-type: none">• Review Synchronized Reserve Operation and Deployment FAQ• Update parameters accordingly in Markets Gateway*
Followed Basepoint Instead of Loading Reserves	<ul style="list-style-type: none">• Request ICCP points (see FAQs 1&6)• Complete required LMS training• Review Synchronized Reserve Operation and Deployment FAQ• Review Guidance for Resources with Synchronized Reserve Assignments During Synchronized Reserve Events
Communication Delays	<ul style="list-style-type: none">• Request ICCP points (see FAQs 1&6)
Delayed Action or Lack of Action by MOC	<ul style="list-style-type: none">• Request ICCP points (see FAQs 1&6)• Review Synchronized Reserve Operation and Deployment FAQ
Lack of Knowledge of Business Rules/Operational Procedures	<ul style="list-style-type: none">• Complete required LMS training• Review Synchronized Reserve Operation and Deployment FAQ• Review Guidance for Resources with Synchronized Reserve Assignments During Synchronized Reserve Events

*Consult with PJM/IMM prior to making updates

- [LMS Training: Reserve Market Overview](#)
- [Guidance for Resources with Synchronized Reserve Assignments During Synchronized Reserve Events](#)
- [Synchronized Reserve Deployment and Reserve Price Formation FAQ](#)

- Impact of communication delays on reserve deployment
- Resource eligibility for reserve assignment
 - Past performance for events \geq 10 minutes
- Basepoint signal
- Revenue and penalty structure
- Synchronized Reserve Offer Cap
- Timing of member operator training requirements
- Review calculation for sync and non-sync reserve capability in M11, Sect 4.2.5.2 & 4.2.5.3

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Synchronized Reserve Event Performance Generator Outreach



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