



SIR52 RAMP RATE LIMITS

SPP ASSESSMENT

JUNE 16/17 MWG

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the lights on... today and in the future.*



SouthwestPowerPool



SPPorg



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SIR52 RAMP RATE LIMITS – EDF RENEWABLES

- **Purpose:**

- DVERs have the capability to ramp from 0% to 100% or vice versa within five minutes and faster. SPP imposes limits on ramp abilities for these resources. This SIR requests SPP research relaxing the ramp capability limitations.

- **Potential Benefit:**

- It could help with Market efficiency as we could unload constraints through RTBM Faster.
- Price formation because of unload constraints faster.
- Maintaining an Optimized transmission system due to unloading constraints faster.

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- **Potential System / Process Impacts**
 - API, MUI, MOI
- **Potential MCE Performance Impact:**
 - None
- **Potential Complexity: High, Medium, Low**
 - Design: None
 - Implementation: None

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- **Potential Risk**

- Potentially have a negative impact to reliability due to how fast VERs are able to ramp, could cause an ACE issue.

- **Market Philosophy Impacts: Market Efficiency, Market Reliability, Price Formation, Price Convergence, Market Transparency**

- Price Formation, Market Efficiency

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- **SPP MMU Comments**

- While the MMU sees potential market benefits from the access to additional ramp without the addition of resources to the current operating plan, it comes with operational difficulties that may outweigh the benefits at this time. SPP and the MMU is currently working with MISO and the IMM to address oscillation on market-to-market constraints because MISO does not place ramp restrictions on their variable energy resources. To resolve the oscillation on market-to-market constraints, SPP has suggested for MISO to consider implementing ramp restrictions. The MMU would be open to working with SPP to evaluate the market benefits from lifting the ramp restrictions in addition to the cost of implementing changes to overcome the current operational issues.