



# SIR193 ESR E4-DETERMINE LIMITS FOR FAST- RESPONDING ESRS

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



SouthwestPowerPool



SPPorg



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# SIR193 ESR E4-DETERMINE LIMITS FOR FAST-RESPONDING ESRS

- **Purpose:**

- The bulk electric system depends on a diversity of generator response to operate reliably. An excess of fast-responding ESRS for specific services, such as regulation, may be detrimental to reliability.
- Recommendation: The ORWG is to work with SPP staff to determine and recommend fast response ESR participation limits that may be necessary for specific services, such as regulation, to maintain reliable operations.

- **Potential Benefit:**

- This initiative will determine if any limitation is needed for fast response ESRS or if there are design changes needed to integrate and better utilize fast response ESRS to increase reliability.

- **Known Risks**

- The limits and designs must ensure reliability is maintained.

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- **Potential System / Process Impacts**
  - Protocols, Tariff, MDB, MCE, RTGEN
- **Potential MCE Performance Impact**
  - Low
- **Potential Complexity**
  - Design: Medium
  - Implementation: Medium
- **Market Philosophy Impacts:**
  - Market Efficiency, Market Reliability