Helping our members work together to keep the lights on... today and in the future

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SPP RE UFLS Regional Standard- Webinar
January 31, 2011
Background

• NERC PRC-006-1 states,

  “Each Planning Coordinator shall develop a UFLS program...that meets the following performance characteristics in simulations of underfrequency conditions resulting from an imbalance scenario...”

• SPP UFLS SDT, along with Powertech Labs Inc. and the input from SPP members, developed PRC-006-SPP-1 to meet these performance requirements.
Applicability

• Planning Coordinator (R4)
• Generator Owners (R6, R7)
• Entities that are responsible for the ownership, operation, or control of UFLS equipment. May include:
  • Transmission Owners (R1, R2, R3, R5)
  • Distribution Providers (R1, R2, R3, R5)
SPP UFLS Standard vs Continent-Wide

- SPP UFLS Standard
  - Does not duplicate continent-wide requirements
  - Includes more restrictive measurements

- SPP UFLS Standard and the continent-wide standard are needed for compliance
SPP UFLS Standard vs Continent-Wide

- Main Differences in SPP’s UFLS Standard as compared to the continent-wide standard
  - Generator Owners included
  - More strict imbalance scenario (30%)
  - More detailed data submittal requirements
  - Specific UFLS steps
SPP UFLS Standard

• UFLS Standard similar to UFLS program in SPP Criteria

• Main changes:
  • Planning-based instead of operation-based
  • Applicable entities (registered entities vs SPP members)
  • Waivers not allowed
Waivers

• Waivers will not be allowed
  • R2 was added for entities with a total forecasted peak Native Load less than 100 MW
    • Must only meet one UFLS step, as assigned by the PC, instead of the three steps in R1.
  • UFLS entities may implement an aggregate UFLS program with other UFLS entities
Attachment 1 (Underfrequency Curve)

- Generator operation curve developed by SPP UFLS SDT to coordinate generator tripping with the latest SPP UFLS study.

- Avoid aggravating an underfrequency situation by tripping additional generation.
Implementation

• PRC-006-SPP-01 may require changes in UF locations, additions and removals of UFR, and aggregated UFLS programs.

• R4, R5, and R6 shall become effective one year after regulatory approval.

• R1, R2, R3, and R7 shall become effective three years after regulatory approval.
Questions?