Project 2008-02: Undervoltage Load Shedding (UVLS) & Underfrequency Load Shedding (UFLS)

UFLS Project
July 2014
• **Very limited project scope...Revise PRC-006-1 to:**
  - address outstanding FERC directive
  - review the standard to determine if any steady state modifications are appropriate (*i.e.*, Paragraph 81 criteria and recommendations of the Independent Expert Review Panel).

• **UFLS team: Subset of existing UVLS team**
  - Beneficial because team can ensure consistency and alignment with UVLS standard

• **Otherwise, UFLS project is separate and distinct from UVLS project:**
  - Different subject matters (UVLS vs. UFLS)
  - Different project timelines and posting schedules
  - Different project scope (UFLS work limited to FERC directive and steady-state modifications)
• FERC raised concern that PRC-006-1 does not specify how soon after an event would an entity need to implement corrections in response to any deficiencies identified in the event assessment under Requirement R11.

• **FERC Order No. 763**: “Notwithstanding NERC’s comments, the Commission is not persuaded that Requirement R9 requires corrective action in accordance with a schedule established by the planning coordinator...Accordingly, we direct NERC to make that requirement explicit in future versions of the Reliability Standard. Within 30 days of the effective date of this Final Rule, NERC is directed to submit a compliance filing indicating how it plans to comply with this directive and a deadline for compliance.” (Paragraph 48)
• Add one new Requirement (R15)

• Revise two existing Requirements (R9 and R10) to accommodate for new Requirement.
<table>
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<tr>
<th>Requirement</th>
<th>Description</th>
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<td>R9</td>
<td>Each UFLS entity shall provide automatic tripping of Load in accordance with the UFLS program design, including any Corrective Action Plan, and schedule for application implementation determined by its Planning Coordinator(s) in each Planning Coordinator area in which it owns assets.</td>
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<td>R10</td>
<td>Each Transmission Owner shall provide automatic switching of its existing capacitor banks, Transmission Lines, and reactors to control over-voltage as a result of underfrequency load shedding if required by the UFLS program, including any Corrective Action Plan, and schedule for application implementation determined by the Planning Coordinator(s) in each Planning Coordinator area in which the Transmission Owner owns transmission.</td>
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<td>R15 (new)</td>
<td>Each Planning Coordinator that determines, through a UFLS design assessment performed under Requirement R4, R5, or R12, that the UFLS program does not meet the performance characteristics in Requirement R3, shall develop a Corrective Action Plan and a schedule for implementation by the UFLS entities within its area.</td>
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15.1 For UFLS design assessments performed under R4 or R5, the Corrective Action Plan shall be developed within the five-year time frame identified in R4.

15.2 For UFLS design assessments performed under R12, the Corrective Action Plan shall be developed within the two-year time frame identified in R12.
Anticipated Timeline for 2014

- **July – August:** UFLS drafting team industry outreach
- **Late August:** Post revised PRC-006-1 for 45-day formal comment and ballot period
- **October:** Post for 10-day final ballot
- **November:** NERC Board of Trustees for Approval