PRC-023-2 and PRC-023-3 Update

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PRC 023-2 and PRC 023-3 Update

- Upcoming Effective dates
  - R 1-3 and R6 due dates
  - The list of circuits
  - Changing/updating the list
  - Changes from PRC 023-3
  - Considerations moving forward
R1 (Due Dates)

- R1 – Setting 200kV & above (Based on Applicability)
  - Switch-on-to-fault schemes Later of 1\textsuperscript{st} day of 1\textsuperscript{st} quarter after regulatory approval of PRC 023-2 or 1\textsuperscript{st} day of 1\textsuperscript{st} quarter 39 months after regulatory approval of PRC 023-1 (October 1, 2013)
  - Elements identified by PC 1\textsuperscript{st} day of 1\textsuperscript{st} quarter 39 months after notification by the PC
    - Or if Elements were identified in planning horizon outside of 39 month window then it will be 1/1/xx where xx would be that year beyond 2017 in the planning horizon
R2-R3 (Due Dates)

• R2 – Set out-of-step blocking elements
  – Elements identified by PC 1\textsuperscript{st} day of 1\textsuperscript{st} quarter 39 months after notification by the PC
    ▪ Or if Elements were identified in planning horizon outside of 39 month window then it will be 1/1/xx where xx would be that year beyond 2017 in the planning horizon

• R3 – If criteria 6,7,8,9,12,or 13 was used in R1 then coordinate calculated circuit capability with PC, TO, RC and all must agree on this calculated facility rating. (Same as R2 due dates)
R6 (Due Date)

- For circuits 200 kV and below PC will conduct assessment yearly using criteria in attachment B to determine circuits in the planning coordinator area (due 1/1/2014) for which the TO, GO, DP must apply R1-R5. (due 4/1/2017 or 1/1/xx where xx is the year in the planning horizon outside the 39 month window)

- PC will maintain a list of circuits per application of attachment B

- PC will provide a list of circuits to RE, RC, TO, GO, and DP within its area within 30 days of the establishment of the final list.

  - Also provide updates within 30 days if changes are made to the list.
Update on R6 (PC List)

- Transmission Working Group (TWG) meeting August 14\textsuperscript{th} 2013
  - Initial list
  - Staff working with Nuclear units for B3 under Attachment B
  - TWG to review initial list
  - TWG to discuss coordination (list and B6 under attachment B )
  - List is due January 1\textsuperscript{st} 2014
PRC 023-3 Update

• PRC 025-1, PRC 023-2 gap
• Relays not covered
• Example in PRC 025-1 Guidance and Technical Reference Document
Example of Gap Radial

Relays subject to PRC-025
Example of Gap Parallel

Relays subject to PRC-025
Considerations moving forward

• Dates for when the existing requirements in PRC 023-1 fall off (listed in implementation Plan, provided link below)

• Coordination and time stamping of R6 list and transferred files between functional entities.

• Criteria for the analysis (Modified TPL assessment)

• Identifying Gap Relays and direction to determine applicability
Questions ????

• Contact compliance office
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Resources

- Presentation will be posted on SPP.org/Compliance
- PRC 023-2 Standard
- PRC 023-3 Standard
- PRC 025-1 Standard
- PRC 025-1 Guidelines and Technical Basis Document
- SPCS Documents for relay loadability
- SPCS White paper Methods to increase line relay loadability