CIP-014 CMEP Guide and CB-020

Gizella Mali
PJM NERC Compliance
Planning Committee
May 10, 2022

CMEP Guidance

- Technical Analyses
  - "An entity only performing a steady-state Contingency Analysis is not able to fully demonstrate an evaluation of instability, and additional dynamic analyses must be performed to satisfy R1."
  - Guidance goes into great detail about specific stability analyses.

Actions

- Common risk assessment methodology portion of CB-020 to be removed from PJM website to avoid conflict with CMEP guidance

- TO CIP-014 analysis must align with CMEP practice guide, or may be a potential non-compliance
  - Compliance entities have been reaching out to TOs specifically who have audits coming up to make them aware of this
  - Compliance entities are focused on TOs assessment and methodology rather than third party assessment

Next Steps

- PJM continuing to support TO's in review/update of common risk assessment methodology

- PJM will share this presentation with additional stakeholder groups for awarenewss (RSCS,TOA-AC & PC)

Contact

SME:
Michael Herman,
Michael.Herman@pjm.com

Member Hotline

(610) 666 – 8980

(866) 400 – 8980

custsvc@pjm.com

Appendix

Timeline

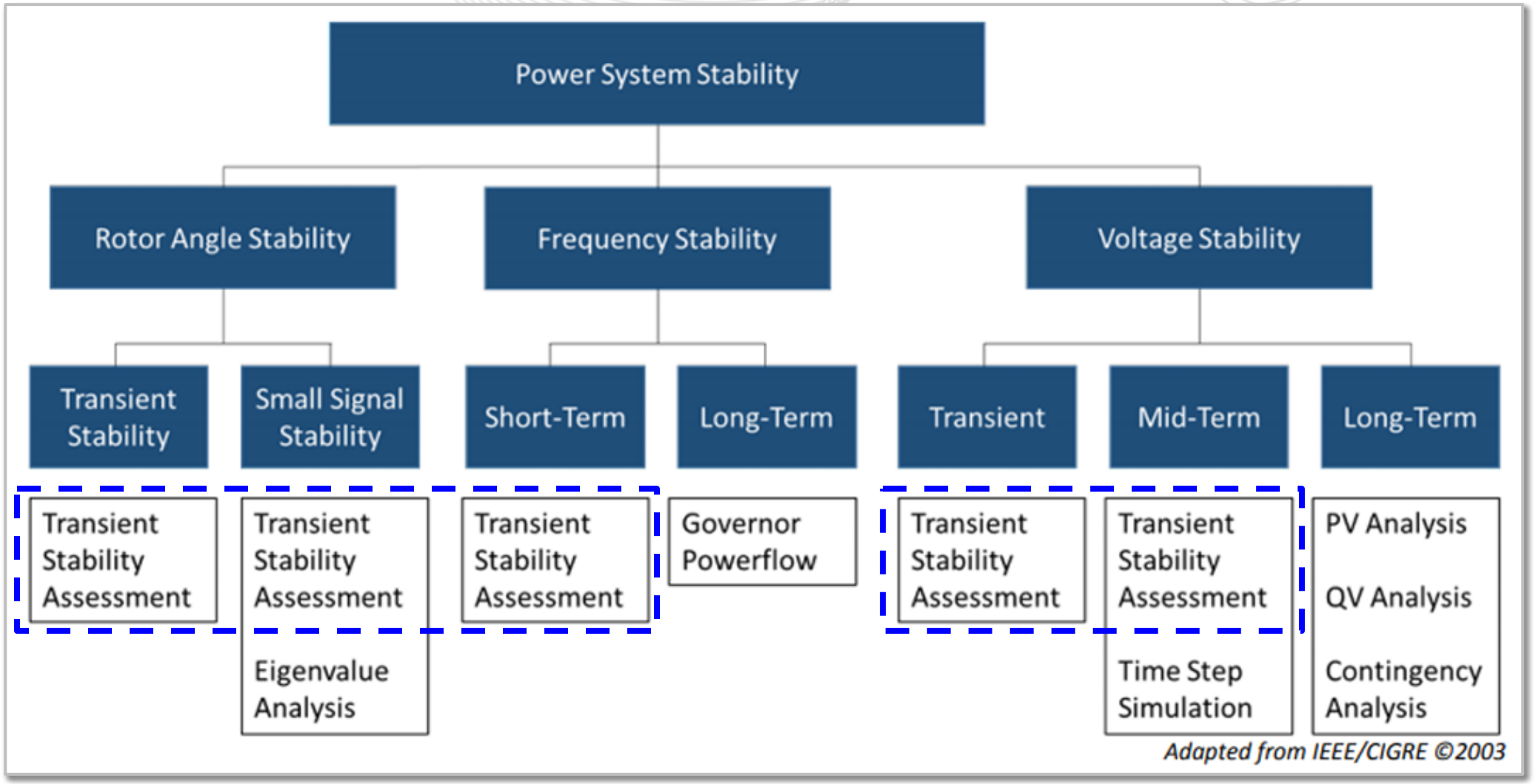
- April 2015 – PJM TODO PSWG (Physical Security Working Group) approved the CIP-014 common risk assessment methodology

- November 2021 – NERC issues CMEP guidance on CIP-014
  - Effective Immediately
  - https://www.nerc.com/pa/comp/guidance/CMEPPracticeGuidesDL/CMEP%20Practice%20Guide%20CIP-014-2%20R1.pdf

CMEP Guidance

- Applicability List
  - PJM TOs follow the prescribed weighting calculations (CIP-014 4.1.1.2)
  - TO's should review the guidance to ensure applicability methodology is compliant
    - https://www.nerc.com/pa/comp/guidance/CMEPPracticeGuidesDL/CMEP%20Practice%20Guide%20CIP-014-2%20R1.pdf
- Models
  - PJM will continue to recommend/provide a specific model, based on the timing of CIP-014 request

System Stability Analysis



Dynamic Simulation Considerations

- Clear documentation of adequate criteria in the risk assessment
  - Rotor angle instability, unstable power swings, voltage excursion beyond entity's criteria, etc.
- Key items to assess the entity's development process and rationale for the dynamic criteria:
  - Rationale for the combinations of events studied in the dynamic simulations such as fault type and definition
  - Co-opted/additional criteria: the entity's decision for criteria selection and the source of the criteria should be clear.
  - Selected model(s) sanity check: the base case(s) should solve within reasonable tolerance.

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