NERC PRC-023-3

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RSCS Meeting
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NERC PRC-023-3 Background

- PRC-023-3 Transmission Relay Loadability
  - Protective relay settings shall not limit transmission loadability; not interfere with system operators’ ability to take remedial action to protect system reliability and; be set to reliably detect all fault conditions and protect the electrical network from these faults.

- Currently, PRC-023-2 is effective
  - PJM Manual 14B currently reflects PRC-023-2
  - http://pjm.com/~/media/documents/manuals/m14b.ashx

- Effective Date for PRC-023-3 is October 1, 2014

- PRC-023-3 introduces criteria changes for circuits subject to Requirements R1-R6
• Circuits subject to Requirements R1-R5:
  – 4.2.1.1 Transmission lines operated at 200 kV and above, except Elements that connect the GSU transformer(s) to the Transmission system that are used exclusively to export energy directly from a BES generating unit or generating plant. Elements may also supply generating plant loads.

• Circuits subject to Requirement R6:
  – 4.2.2.1 Transmission lines operated at 100 kV to 200 kV and transformers with low voltage terminals connected at 100 kV to 200 kV, except Elements that connect the GSU transformer(s) to the Transmission system that are used exclusively to export energy directly from a BES generating unit or generating plant. Elements may also supply generating plant loads.
• 2014 List published in May 2014 (PRC-023-2), under additional FYI review under new standard requirements

• Next Steps
  – Update PJM Manual 14B per PRC-023-3
  – Conduct PRC-023-3 annual assessment as part of the typical cycle in 2015
  – Publish and distribute list of circuits per assessment results
Questions?

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