NERC Reliability Standards
An Independent Review by Industry Experts
Valerie Agnew, Director of Standards Development
Agenda

- Assignment and Scope
- Key Findings
- Recommendations
• Evaluate each non-CIP requirement for:
  ▪ Quality
  ▪ Content
  ▪ Risk
• Recommend:
  ▪ Retirement
  ▪ Improvement
  ▪ Consolidation
• Evaluate current versus alternate construct for standards
Key Findings - Status

- Future enforceable requirements – 404
- Recommended for retirement – 147
- Should be retained - 257:
  - Improve: 176
  - Steady-state: 81
  - Consolidate retained requirements (7 percent)
There is variation across different standard families.
Fundamental change will be required to achieve steady-state
Key Findings - Gaps

• Four high-priority gaps identified
  ▪ Outage Coordination
  ▪ Governor Frequency Response
  ▪ Situational Awareness Models
  ▪ Clear requirements for three-part communication

• Three medium-priority gaps identified
  ▪ Verification of accuracy of Planning Models
  ▪ Short Circuit/Fault Duty Models
  ▪ Infrastructure Maintenance

• Additional gaps identified at the requirement level
Near-Term Recommendations

1. Retire 147 of 404 Future Enforceable Requirements
2. Remove requirements recommended for retirement from the Actively Monitored List
3. Address gaps
4. Focus improvement on 16 high-risk/low-content standards
5. All future changes must meet project’s criteria
6. Pursue consolidation and organization of certain standards or requirements around ‘themes’
7. Develop risk-based approach for identifying reliability issues and appropriate solutions
1. Move to New Construct in a measured manner
2. Expand tasks in the Functional Model towards maintenance of a focused, concise number of standards or requirements
3. Explore using dashboards to measure reliability and trends to monitor potential risks to the reliability of the Bulk-Power System
4. Use these dashboards and trends to deploy mechanisms other than standards to address reliability
Questions and Answers
Reliability Standards Development Plan (RSDP)

Steve Noess, Associate Director of Standards Development
• Provide objective prioritization for project development
• Balance resources to address projects, considering:
  - Reliability need
  - Complexity
  - Development process
• Should also allow sufficient flexibility for re-prioritization and addressing emerging issues
July 1-August 9, 2013: Developed RSDP

August 26-September 12, 2013: Post for three-week initial comment period

October 17, 2013: Presentation of RSDP to Standards Committee

November 7, 2013: Presentation of RSDP to NERC Board of Trustees
Prioritization Considerations

• Completing known prior work from the 2013-2015 RSDP:
  - Directives
  - Periodic reviews
  - Existing projects

• Other considerations:
  - Integration of independent experts’ review
  - Reliability Issues Steering Committee’s Electric Reliability Organization Priorities
  - Address future emerging issues in timely manner
  - Other recommendations
Transformation to Steady-State

- High quality
- Appropriate content
- Results-based
- Pass the Paragraph 81 criteria test
Questions and Answers