

Reliability Issues Risk Assessment 2012 Emerging Issues Survey for Long Term Reliability Assessment

Background

As part of the annual Long Term Reliability Assessment, NERC staff along with industry input, identifies and analyzes the impact of key issues and trends that may affect reliability in the future, such as market practices, industry developments, potential technical challenges, technology implications, and policy changes.

The Long-Term Reliability Assessment forms the basis for the NERC reference case. This reference case incorporates known policy and regulation changes expected to take effect throughout the ten-year timeframe assuming a variety of factors such as economic growth, weather patterns, and system equipment behavior.

A set of scenarios can then be developed from risk assessment of emerging reliability issues. These scenarios can then be compared to the reference case to measure and identify any significant changes to the bulk power system that may be required to maintain reliability.

The Reliability Assessment Subcommittee of the NERC Planning Committee has identified the following issues for ranking in 2012 (in no particular order):

1. [Environmental Regulations](#)
2. [Accommodating Variable Resources in System Operations](#)
3. [Gas-Electric Interdependency](#)
4. [Geomagnetic Disturbance Impacts to System Operations and Communications](#)
5. [Transmission Siting and Permitting](#)
6. [Potential Operational Risks Associated with Interaction of SPS/RAS](#)
7. [Global Supply Chains and Fuel Reliability](#)
8. [Assessment of Fault-Induced Delayed Voltage Recovery \(FIDVR\) Simulations](#)

Survey Completion

Each emerging issue has seven questions which assess the risk of this issue to the reliable operation of the bulk power system. The questions (in order of occurrence on the survey) are as follows:

1. Which Adequate Level of Reliability (ALR) characteristics would this emerging issue have an impact on (*multiple selections are allowed*).
2. Does this Emerging Issue impact Resource Adequacy in the 10 year horizon? (*Single selection allowed*)

3. Does this Emerging Issue impact Real-Time Operations in the 10 year horizon? *(Single selection allowed)*
4. Does this Emerging Issue impact Long-Term Planning in the 10 year horizon? *(Single selection allowed)*
5. What is the Probability of Occurrence of this issue during the 1 to 5 year time horizon (2013 through 2018)? *(Single selection allowed)*
 - a. This question is asking the respondent to gauge the probability of occurrence, or likelihood of occurrence in the 1 to 5 year time horizon
6. What is the Probability of Occurrence of this issue during the 6 to 10 year time horizon (2019 through 2023)? *(Single selection allowed)*
 - a. This question is asking the respondent to gauge the probability of occurrence, or likelihood of occurrence in the 6 to 10 year time horizon
7. What is the Impact to Reliability during the 1 to 5 year time horizon (2013 through 2018)? *(Single selection allowed)*
 - a. This question is asking the respondent gauge this issues' potential impact on the reliable operation of the bulk power system in the 1 to 6 year time horizon
8. What is the Impact to Reliability during the 6 to 10 year time horizon (2019 through 2023)? *(Single selection allowed)*
 - a. This question is asking the respondent gauge this issues' potential impact on the reliable operation of the bulk power system in the 1 to 6 year time horizon

Additionally, respondents may enter additional comments on the issues or select a new issue that should be considered for the *2012 Long-Term Reliability Assessment's* emerging issue risk analysis.

NERC Contact Information

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