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Standard Authorization Request Form

Title of Proposed Standard Revise System Operating Limit Methodology in FAC-011-2 to Require Consideration of Credible Multiple Element Contingencies in the Operating Horizon (Project 2008-05)	
Request Date	November 9, 2007
Revised Date	August 7, 2008

SAR Requester Information	SAR Type (<i>Check a box for each one that applies.</i>)	
Name Roger E. Clayton, Chairman, NYSRC Reliability Rules Subcommittee, on behalf of the New York State Reliability Council	<input type="checkbox"/>	New Standard
Primary Contact Roger E. Clayton	<input checked="" type="checkbox"/>	Revision to existing Standard
Telephone 518-588-6362 Fax	<input type="checkbox"/>	Withdrawal of existing Standard
E-mail roger.clayton@electricpowerresources.com	<input type="checkbox"/>	Urgent Action

Purpose (Describe what the standard action will achieve in support of bulk power system reliability.)

Revise FAC-011-2 (see Appendix A) to require:

1. The consideration of common mode Contingencies that result in loss of two or more (multiple) elements that are associated with potential IROL conditions.
 2. That the System Operating Limit (SOL) methodology addresses the SOLs received from the Planning Authority.
 3. Correction of minor typographical errors in Requirement R3 to correct instances of failure to capitalize defined terms from the NERC Glossary of Terms used in reliability standards.
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Industry Need (Provide a justification for the development or revision of the standard, including an assessment of the reliability and market interface impacts of implementing or not implementing the standard action.)

Contingencies that may result in the loss of multiple elements which could impact Interconnection Reliability Operating Limits (IROL) and could pose a threat to the reliability of the Bulk Electric System in North America. While the current FAC-011-2 standard does not preclude the consideration of such Contingencies, it is not a requirement and as such may not be appropriately addressed. This could result in inadequate preparation, resulting in IROL violations and Adverse Reliability Impacts.

Additionally, the Reliability Coordinator receives information from the Planning Authority related to SOL/IROL conditions that may be considered, but is not required to be used, in the development of its SOL methodology. This could result in a methodology that does not properly consider available information leading to inadequate analysis and a less reliable System.

Brief Description (Provide a paragraph that describes the scope of this standard action.)

Revise FAC-011-2 to require consideration of applicable Contingency events that may result in the loss of multiple elements for determining the subset of SOLs that could be IROLs in the operating horizon and to include information received from the Planning Authority in the analysis.

Detailed Description (Provide a description of the proposed project with sufficient details for the standard drafting team to execute the SAR.)

See the attached proposed changes to FAC-011-2 (Appendix A).

Requirement R1.4 (to be added): This statement has been added due to a perceived gap in the usage of information supplied by the PA to the RC. This addition mandates the RC to describe how the list of SOLs received from the Planning Authority (in accordance with FAC-014-1 Requirement R5.3) is utilized in creating its SOL methodology.

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Requirement R3: Criteria for selection of applicable Contingencies including those that may result in the loss of multiple elements .The intent of this change is to require the RC to describe its criteria for determining Contingencies (subject to review by their peers as per FAC-014). The wording proposed will allow flexibility for the RC to explain its criteria for the selection of common mode Contingencies that result in loss of two or more (multiple) elements that are associated with potential IROL conditions.

Requirement R3: Correction of typographical errors for terms not capitalized that are presently used in the NERC Glossary of Terms used in its reliability standards.

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Reliability Functions

The Standard will Apply to the Following Functions <i>(Check box for each one that applies.)</i>		
<input type="checkbox"/>	Regional Reliability Organization	Conducts the regional activities related to planning and operations, and coordinates activities of Responsible Entities to secure the reliability of the Bulk Electric System within the region and adjacent regions.
X	Reliability Coordinator	Responsible for the real-time operating reliability of its Reliability Coordinator Area in coordination with its neighboring Reliability Coordinator's wide area view.
<input type="checkbox"/>	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within a Balancing Authority Area and supports Interconnection frequency in real time.
<input type="checkbox"/>	Interchange Authority	Ensures communication of interchange transactions for reliability evaluation purposes and coordinates implementation of valid and balanced interchange schedules between Balancing Authority Areas.
<input type="checkbox"/>	Planning Coordinator	Assesses the longer-term reliability of its Planning Coordinator Area.
<input type="checkbox"/>	Resource Planner	Develops a >one year plan for the resource adequacy of its specific loads within a Planning Coordinator area.
<input type="checkbox"/>	Transmission Planner	Develops a >one year plan for the reliability of the interconnected Bulk Electric System within its portion of the Planning Coordinator area.
<input type="checkbox"/>	Transmission Service Provider	Administers the transmission tariff and provides transmission services under applicable transmission service agreements (e.g., the pro forma tariff).
<input type="checkbox"/>	Transmission Owner	Owns and maintains transmission facilities.
<input type="checkbox"/>	Transmission Operator	Ensures the real-time operating reliability of the transmission assets within a Transmission Operator Area.
<input type="checkbox"/>	Distribution Provider	Delivers electrical energy to the End-use customer.
<input type="checkbox"/>	Generator Owner	Owns and maintains generation facilities.
<input type="checkbox"/>	Generator Operator	Operates generation unit(s) to provide real and reactive power.
<input type="checkbox"/>	Purchasing-Selling Entity	Purchases or sells energy, capacity, and necessary reliability-related services as required.
<input type="checkbox"/>	Market Operator	Interface point for reliability functions with commercial functions.
<input type="checkbox"/>	Load-Serving Entity	Secures energy and transmission service (and reliability-related services) to serve the End-use Customer.

Reliability and Market Interface Principles

Applicable Reliability Principles <i>(Check box for all that apply.)</i>	
<input checked="" type="checkbox"/>	1. Interconnected bulk power systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions as defined in the NERC Standards.
<input checked="" type="checkbox"/>	2. The frequency and voltage of interconnected bulk power systems shall be controlled within defined limits through the balancing of real and reactive power supply and demand.
<input checked="" type="checkbox"/>	3. Information necessary for the planning and operation of interconnected bulk power systems shall be made available to those entities responsible for planning and operating the systems reliably.
<input checked="" type="checkbox"/>	4. Plans for emergency operation and system restoration of interconnected bulk power systems shall be developed, coordinated, maintained and implemented.
<input type="checkbox"/>	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk power systems.
<input type="checkbox"/>	6. Personnel responsible for planning and operating interconnected bulk power systems shall be trained, qualified, and have the responsibility and authority to implement actions.
<input checked="" type="checkbox"/>	7. The security of the interconnected bulk power systems shall be assessed, monitored and maintained on a wide area basis.
<input type="checkbox"/>	8. Bulk power systems shall be protected from malicious physical or cyber attacks.
Does the proposed Standard comply with all of the following Market Interface Principles? <i>(Select 'yes' or 'no' from the drop-down box.)</i>	
1. A reliability standard shall not give any market participant an unfair competitive advantage. Yes	
2. A reliability standard shall neither mandate nor prohibit any specific market structure. Yes	
3. A reliability standard shall not preclude market solutions to achieving compliance with that standard. Yes	
4. A reliability standard shall not require the public disclosure of commercially sensitive information. All market participants shall have equal opportunity to access commercially non-sensitive information that is required for compliance with reliability standards. Yes	

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Related Standards

Standard No.	Explanation

Related SARs

SAR ID	Explanation

Regional Variances

Region	Explanation
ERCOT	
FRCC	
MRO	
NPCC	
SERC	
RFC	
SPP	
WECC	

Appendix A – Proposed Revisions to FAC-011-2 Standard