

Standard Authorization Request

The SC shall be responsible for implementing and maintaining this form as needed to support the information requirements of the standards development process in this Procedure. Changes to this form are considered minor, and therefore subject to only the approval of the SC.

ReliabilityFirst Standard Authorization Request Form

**ReliabilityFirst
will complete**

Title of Proposed Standard: Planning Resource Adequacy Analysis, Assessment and Documentation
Request Date: 03/31/16

ID - BAL-503-RFC-03
Authorized for Posting - 03/31/16
Authorized for Development – 04/12/16

SAR Originator Information

Name: Anthony Jablonski	SAR Type (Check box for one of these selections.)	
Company: ReliabilityFirst	<input type="checkbox"/>	New Standard
Telephone: 216-503-0693	<input checked="" type="checkbox"/>	Revision to Existing Standard
Fax:	<input type="checkbox"/>	Withdrawal of Existing Standard
E-mail: Anthony.Jablonski@rfist.org	<input type="checkbox"/>	Urgent Action

Purpose (Provide one or two sentences.)

The purpose of this SAR is to initiate actions to revise the existing ReliabilityFirst Planning Resource Adequacy Analysis, Assessment and Documentation (BAL-502-RFC-02) Standard to address two FERC Directives as noted in FERC Order No 747 (FERC Order initially approving the Standard). Miscellaneous non-substantive format changes such as, but not limited to, reclassifying “sub-requirements” to “parts” will be considered as well.

Industry Need (Provide one or two sentences.)

The ReliabilityFirst Planning Resource Adequacy Analysis, Assessment and Documentation (BAL-502-RFC-02) Standard was approved as a Regional Reliability Standard by the Commission in Order No 747 on March 17, 2011 and became enforceable on May 23, 2011. The BAL-502-RFC-02 Standard establishes requirements for Planning Authorities/Coordinators in the

ReliabilityFirst region regarding resource adequacy assessment, which subject matter is not currently addressed in NERC’s continent-wide Reliability Standards. The Commission also approves four regional reliability definitions related to the approved regional Reliability Standard and the violation risk factors and violation severity levels assigned to the BAL-502-RFC-02 Requirements.

The BAL-502-RFC-02 Standard contains the following two main requirements. Requirement R1 requires each Planning Coordinator in the ReliabilityFirst footprint to perform and document an annual resource adequacy analysis. The sub-requirements of Requirement R1 set forth the criteria to be used for the resource adequacy analysis. Requirement R2 requires each Planning Coordinator to annually document the projected load and resource capability for each area and transmission constrained sub-area identified in the analysis. The sub-requirements of Requirement R2 set forth the specific documentation requirements.

At the time of approval, the Commission directed ReliabilityFirst, at the time it conducts its scheduled five year review, to (1) add time horizons to the two main requirements, and (2) consider modifying the regional Reliability Standard to include a requirement that the planning coordinators identify any gap between the needed amount of planning reserves defined in Requirement R1.1 and the planning reserves determined from the resource adequacy analysis.

ReliabilityFirst conducted a five year review comment posting period (February 29, 2016 through March 9, 2016) in which six individuals responded. All six individual provided responses indicating that they believe the BAL-502-RFC-02 should be reaffirmed (which includes a process to respond to the FERC directives).

Brief Description (A few sentences or a paragraph.)

The Standard Drafting Team (SDT) will review the two main requirements and shall add Time Horizons to each of the Requirements.

The SDT will consider modifying the BAL-502-RFC-02 Standard to include a requirement that the Planning Coordinators identify any gap between the needed amount of planning reserves defined in Requirement R1.1 and the planning reserves determined from the resource adequacy analysis.

The SDT will also consider miscellaneous non-substantive formatting changes such as, but not limited to, reclassifying “sub-requirements” to “parts”.

Reliability Functions

The Standard will Apply to the Following Functions (Check box for each one that applies.)

<input type="checkbox"/>	Reliability Authority	Ensures the reliability of the bulk transmission system within its Reliability Authority area. This is the highest reliability authority.
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<input type="checkbox"/>	Balancing Authority	Integrates resource plans ahead of time, and maintains load-interchange-resource balance within its metered boundary and supports system frequency in real time
<input type="checkbox"/>	Generator Owner	Owns and maintains generating units
<input type="checkbox"/>	Interchange Authority	Authorizes valid and balanced Interchange Schedules
<input checked="" type="checkbox"/>	Planning Authority/Planning Coordinator	Plans the BPS
<input type="checkbox"/>	Resource Planner	Develops a long-term (generally one year and beyond) plan for the resource adequacy of specific loads (customer demand and energy requirements) within a Planning Authority Area
<input type="checkbox"/>	Transmission Planner	Develops a long-term (generally one year and beyond) plan for the reliability (adequacy) of the interconnected bulk electric transmission systems within its portion of the Planning Authority Area
<input type="checkbox"/>	Transmission Service Provider	Provides transmission services to qualified market participants under applicable transmission service agreements
<input type="checkbox"/>	Transmission Owner	Owns transmission facilities
<input type="checkbox"/>	Transmission Operator	Operates and maintains the transmission facilities, and executes switching orders
<input type="checkbox"/>	Distribution Provider	Provides and operates the “wires” between the transmission system and the customer
<input type="checkbox"/>	Generator Operator	Operates generating unit(s) and performs the functions of supplying energy and Interconnected Operations Services
<input type="checkbox"/>	Purchasing-Selling Entity	The function of purchasing or selling energy, capacity and all necessary Interconnected Operations Services as required
<input type="checkbox"/>	Load-Serving Entity	Secures energy and transmission (and related generation services) to serve the end user
<input type="checkbox"/>	Market Operator	Integrates energy, capacity, balancing, and transmission resources to achieve an economic, reliability-constrained dispatch of resources. The dispatch may be either cost-based or bid-based
<input type="checkbox"/>	Regional Reliability Organizations	An entity that ensures that a defined area of the BPS is reliable, adequate and secure. A member of the North American Electric Reliability Council. The Regional

		Reliability Organization can serve as the Compliance Monitor
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NOTE: The SDT may find it necessary to modify the initial reliability function responsibility assignment as a result of the standards development and comments received.

Reliability Principles

<i>Applicable Reliability Principles (Check box for all that apply.)</i>	
<input checked="" type="checkbox"/>	1. Interconnected BPS 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 BPS 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 BPS shall be made available to those entities responsible for planning and operating the systems reliably.
<input type="checkbox"/>	4. Plans for emergency operation and system restoration of interconnected BPS 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 BPS.
<input type="checkbox"/>	6. Personnel responsible for planning and operating interconnected BPS shall be trained, qualified, and have the responsibility and authority to implement actions.
<input type="checkbox"/>	7. The security of the interconnected BPS shall be assessed, monitored, and maintained on a wide-area basis.

Market Interface Principles

<i>Does the proposed Standard comply with all of the following Market Interface Principles?</i>	
Recognizing that reliability is an essential requirement of a robust North American economy:	
<input checked="" type="checkbox"/> yes or <input type="checkbox"/> no	1. A reliability standard shall not give any market participant an unfair competitive advantage.
<input checked="" type="checkbox"/> yes or <input type="checkbox"/> no	2. A reliability standard shall neither mandate nor prohibit any specific market structure.

<input checked="" type="checkbox"/> yes or <input type="checkbox"/> no	3. A reliability standard shall not preclude market solutions to achieving compliance with that standard.
<input checked="" type="checkbox"/> yes or <input type="checkbox"/> no	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.

Detailed Description (Provide enough detail so that an independent entity familiar with the industry could draft a Standard based on this description.)

The SDT will review the two main requirements and shall add Time Horizons to each of the Requirements. The SDT shall review the five Time Horizons listed below and determine which Time Horizon is appropriate for each Requirement:

1. Long-term Planning – a planning horizon of one year or longer.
2. Operations Planning – operating and resource plans from day-ahead up to and including seasonal.
3. Same-day Operations – routine actions required within the timeframe of a day, but not real-time.
4. Real-time Operations – actions required within one hour or less to preserve the reliability of the bulk electric system.
5. Operations Assessment – follow-up evaluations and reporting of real-time operations.

The STD will consider modifying the BAL-502-RFC-02 Standard to include a requirement that the planning coordinators identify any gap between the needed amount of planning reserves defined in Requirement R1.1 and the planning reserves determined from the resource adequacy analysis. This new requirement will be a documentation requirement only and will not require entities to install additional generation or transmission capacity.

- If the SDT decides to not include a new requirement after their consideration, the SDT shall develop a technical justification as to why a new requirement was not included.
- If the SDT decides to include a new requirement after their consideration, the Standards Drafting Team shall also develop associated Measures, Violation Risk Factors, Violation Severity Levels and Time Horizons.

The SDT will also review the Standard and consider miscellaneous non-substantive formatting changes such as, but not limited to, reclassifying “sub-requirements” to “parts”.

Related Standards (NERC and Regional)

Standard No.	Explanation
BAL-502-RFC-02	This Standard was approved by the FERC on March 23, 2011

Related SARs

SAR ID	Explanation

Implementation Plan

<p>Description (<i>Provide plans for the implementation of the proposed standard, including any known systems or training requirements. Include the reliability risk(s) associated with the violation that the standard will mitigate, and the costs associated with implementation.</i>)</p>	
<p>Proposed Implementation</p>	<p>days after Board adoption or</p>
<p>_____</p> <p>on (date):</p>	

Assignments

	<i>Assignment</i>
Team Members	
ReliabilityFirst Staff	