

SAR: Coordinate Interchange Transactions

Title of Proposed Standard:	Coordinate Interchange Transactions
Request Date:	March 7, 2002
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SAR ID# :	COORD_INTERCHNG_01_02

SAR Requestor Information		SAR Type (Put an 'x' in front of one of these selections)	
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Purpose/Industry Need

To ensure that the implementation of transactions between Balancing Authorities are coordinated by the Interchange Authority such that the following reliability objectives are met:

- Each Interchange Schedule is checked for reliability before it is implemented
- The Balancing Authorities implement the Interchange Schedule exactly as scheduled
- Schedule information is available for reliability assessments

Brief Description

To ensure reliability related data pertaining to interchange transactions is verified and communicated to functional authorities. Reliability related data to be verified should include megawatt magnitude, ramp start and stop times, and the interchange transaction's duration. Reliability related data should be communicated by and between the Interchange Authority, Balancing Authority, Reliability Authority, Transmission Service Provider, and Purchasing-Selling Entity functions.

Verification of data should indicate that a mutual agreement exists between parties that intend to implement a proposed interchange transaction as well as approval by the appropriate functional authorities.

To provide a mechanism for transaction identification that could be used for congestion management and/or relieving operating limit violations.

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Reliability Functions

The Standard will Apply to the Following Functions <i>(Put an 'X' in front of each one that applies)</i>		
X	Reliability Authority	Ensures the reliability of the bulk transmission system within its Security Authority Area. This is the highest reliability authority.
X	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
X	Interchange Authority	Authorizes valid and balanced Interchange Schedules
	Planning Authority	Plans the bulk electric system
X	Transmission Service Provider	Provides transmission services to qualified market participants under applicable transmission service agreements
	Transmission Owner	Owns transmission facilities
	Transmission Operator	Operates and maintains the transmission facilities, and executes switching orders
	Distribution Provider	Provides and operates the "wires" between the transmission system and the customer
	Generator	Owns and operates generation unit(s) or runs a market for generation products that performs the functions of supplying energy and Interconnected Operations Services
X	Purchasing-Selling Entity	The function of purchasing or selling energy, capacity and all necessary Interconnected Operations Services as required.
	Load-Serving Entity	Secures energy and transmission (and related generation services) to serve the end user

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Reliability and Market Interface Principles

Applicable Reliability Principles <i>(Put an 'x' in front of all that apply)</i>	
X	1. Interconnected bulk electric systems shall be planned and operated in a coordinated manner to perform reliably under normal and abnormal conditions.
X	2. The frequency of interconnected bulk electric systems shall be controlled within defined limits through the balancing of electric supply and demand
X	3. Information necessary for planning and operation of interconnected bulk electric systems shall be made available to those entities responsible for planning and operating the systems reliably
	4. Plans for emergency operation and system restoration of interconnected bulk electric systems shall be developed, coordinated, maintained and implemented
X	5. Facilities for communication, monitoring and control shall be provided, used and maintained for the reliability of interconnected bulk electric systems
	6. Personnel responsible for planning and operating interconnected bulk electric systems shall be trained, qualified and have the responsibility and authority to implement actions
X	7. The security of the interconnected bulk electric systems shall be assessed, monitored and maintained on a wide area basis
Does the proposed Standard comply with all of the following Market Interface Principles?	
<i>(Enter 'yes' or 'no')</i>	
Yes	
1. Interconnected The planning and operation of bulk electric systems shall recognize that reliability is an essential requirement of a robust North American economy	
2. An Organization Standard shall not give any market participant an unfair competitive advantage	
3. An Organization Standard shall neither mandate nor prohibit any specific market structure	
4. An Organization Standard shall not preclude market solutions to achieving compliance with that Standard	
5. An Organization 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	

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Detailed Description

To address coordination of interchange transactions as they impact interchange schedules the SAR drafting team is providing this description of the data communications between the Interchange Authority and other functional authorities that are necessary for reliable operations.

The following are processes that need to take place but they are not necessarily sequential steps in the process. The drafting team is trying to address the reliability needs in the processes.

1. The desire to transfer energy between Balancing Authorities is conveyed to the Interchange Authority.
2. Reliability related transaction data is submitted to the Interchange Authority by the requesting party.
3. The Interchange Authority submits transaction data to the Transmission Service Provider that verifies and approves transmission availability.
4. The Interchange Authority communicates the transactions' status on transmission service approval to the requesting parties
5. The Interchange Authority communicates only approved and verified interchange schedule data to the Balancing Authority and the Reliability Authority.
6. The Balancing Authority receiving data from an Interchange Authority communicates the net schedules interchange to the neighboring Balancing Authority receiving data from the Interchange Authority.
7. The Reliability Authority performs congestion management security studies and approves or denies the interchange schedule, and communicates approved interchange schedules to the Interchange Authority.
8. The Interchange Authority communicates the transactions' status regarding implementation to the requesting parties

Related Standards

Standard No.	Explanation

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Related SARs

SAR ID	Explanation
BAL_RES_&_DEMND_01_03	The "Balance Resources and Demand" SAR identifies requirements matching resources with demand. Some of the data required to ensure "balance" comes from transactions and is referenced in this Coordinate Interchange SAR.
OPER_WITHN_LMTS_01_02	The "Operate Within Transmission Limits – Monitor and Assess Short Term Reliability" SAR includes requirements that the RA monitor the overall reliability of the RA Area. This includes the requirement that data be collected and analyzed to ensure security. Some of the data collected for security analyses is included in this Coordinate Interchange SAR.
COORD_OPERATONS_01_01	The "Coordinate Operations" SAR may include requirements such as entering data into the IDC. The data for this comes from Interchange.

Regional Differences

Region	Explanation
ECAR	none
ERCOT	none
FRCC	none
MAAC	none
MAIN	none
MAPP	none
NPCC	none
SERC	none
SPP	none
WECC	none

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Team Assignments

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