



NORTH AMERICAN ELECTRIC RELIABILITY COUNCIL

Princeton Forrestal Village, 116-390 Village Boulevard, Princeton, New Jersey 08540-5731

Coordinate Interchange SAR Drafting Team

August 19, 2002

Conference Call - Minutes

Attendees: The attendees' list is affixed as **Exhibit A**.

The facilitator noted that the group should following the NERC Antitrust Guidelines in all discussions, meetings, conference calls, etc. The guidelines were attached to the conference call's agenda.

The team revised the Issues List and the list is affixed as **Exhibit B**.

The team added a few comments to the Redlined SAR (see yellow highlights), the SAR is affixed as **Exhibit C**.

SAR – Brief and Detailed Description

Discussion:

- We need to describe the reliability objective and then we may need to see if the industry believes that the definitions should be expanded. What is the “core reliability” that the SAR should address? Can we perform the reliability objective with the definitions that we are working on today?
- Look at the objectives instead of the definitions. Transactions must balance or one has inadvertent. Is this not the reliability objective?
- We should look at the Functional Model and say we are capturing BA's scheduled interchange.
- We need a more descriptive definition for which we are trying to develop a SAR. Interchange Transaction – A physical schedule that reflects market actions. We want to try to describe, or define, what this SAR is achieving. What information is required for Interchange Transactions? The point is, what is the information that is needed for reliability? Maybe we should define the information for energy transfers. Is the SAR just for bilateral transactions?

Next Steps: The group agreed to schedule a conference call at 11:30 a.m. EDT on Monday, August 26. The call will be used to:

August 26 Conference Call	Finalize the following: <ul style="list-style-type: none">• Second draft of the SAR – Post for comment• Responses to comments from first posting• Issues List for posting with SAR• Cover letter for posting with SAR
August 27 or 28	Post Cover Letter, List of Issues, Responses, and second draft of SAR for 30-day public comment period
September 28 – 30	Maureen Long to compile comments and send them to the drafting team
October 2	Drafting team meeting will be scheduled in Miami, Florida. Please do not make travel arrangements until the meeting is announced.

Action: Doug Hils and Charles Yeung will draft a cover letter that explains why the drafting team needs the industry’s response to the questions on the issues list? The letter will ask the industry for feedback, direction, and approach for the drafting team as we continue with the SAR.

Action: Gordon Scott will add Carolyn Ingersoll’s descriptions to the SAR and send the documents to the drafting team.

Gordon Scott

Gordon Scott
Drafting Team Facilitator

**SAR Drafting Team Roster
Coordinate Interchange – August 19, 2002 Conference Call**

Name	Title	Company	Address	Phone/E-mail
Carolyn Ingersoll	Generation Control Analyst	Duke Energy	5400 Westheimer Houston, TX 77098	713-989-0890 cjingersoll@duke-energy.com
Charles H. Yeung	Director, Business Standards	Reliant Resources	1111 Louisiana St Houston, TX 77002	713-207-2935 cyeung@reliant.com
David McRee	Sr Engineer	Duke Energy	526 S. Church St. Charlotte, NC 28201	704-382-9841 damcree@duke-energy.com
Douglas E. Hils	Mgr-Ctrl Area Ops	Cinergy Corp	139 East 4th Street, Rm 635A Cincinnati, Ohio 45202	513-287-2149 doug.hils@cinergy.com
Jim Cyrulewski	VP - Operations	International Transmission Co	1901 South Wagner Road Ann Arbor, Michigan 48103	734-665-3628 cyrulewskij@dteenergy.com
Jim McIntosh	Director of Grid Operations	California ISO	151 Blue Ravine Road Folsom, CA 95630	916-351-2101 jm McIntosh@caiso.com
Joel Mickey	Mgr Mkt Ops Support	ERCOT	2705 West Lake Drive Taylor, Texas 76574	512-248-3925 jmickey@ercot.com
Linda Clarke	Regulatory Spec	Exelon Power Team	300 Exelon Way Kennett Square, PA 19348	610-765-6698 lclarke@pwrteam.com
Nick Henery	Energy Coord, Special Projects	SMUD	6301 S Street, Sacramento, CA 95852	916-732-5699 nhenery@smud.org
Gordon Scott	Manager – Transmission and Interchange	NERC	116-390 Village Boulevard Princeton, NJ 08540	609-452-8060 Gordon.scott@nerc.com

Exhibit B

Coordinate Interchange SAR Drafting Team Issues List

Updated: 08/19/02

	Issue Description	Issue Identified
00-01	The drafting team believes that the reliability object of the SAR is the coordination of information and actions between the Balancing Authority and the Reliability Authority. Do you agree? Would you include the Transmission Service Provider or Transmission Owner or other functions defined in the Reliability Model?	August 19, 2002 Conference Call
00-02	The drafting team believes another reliability objective is for the Interchange Authority authorizes valid scheduled interchange and balanced interchange schedules to the Reliability Authority. Do you agree?	August 19, 2002 Conference Call
00-03	Should this SAR address the coordination of generation related services?	August 19, 2002 Conference Call
00-04	Should the drafting team focus its work on both intra-RTO and inter-RTO seams?	August 06, 2002 Meeting
00-05	Should the standard ensure that data is provided to those functions that need to check and verify the data for agreement between Balancing Authorities? The above assumes that the coordination can take place anytime before implementation, should the SAR also address real-time coordination?	August 19, 2002 Conference Call

	Issue Description	Issue Identified
00-06	<p>In the RTO world is the term “Interchange Transaction” as defined in NERC Policy adequate? For all the terms below: Is this an adequate term for this reliability SAR?</p> <p>Terms Used in NERC Policy</p> <ul style="list-style-type: none"> • INTERCHANGE TRANSACTION. A TRANSACTION that crosses one or more Control Area boundaries. • INTERCHANGE SCHEDULE. The planned INTERCHANGE between two ADJACENT CONTROL AREAS that results from the implementation of one or more INTERCHANGE TRANSACTION(S). • NET ACTUAL INTERCHANGE. The algebraic sum of all metered interchange over all INTERCONNECTIONS between two PHYSICALLY ADJACENT CONTROL AREAS. • NET SCHEDULED INTERCHANGE. The net of all INTERCHANGE SCHEDULES with all ADJACENT CONTROL AREAS. It is, in essence, the scheduled interchange with the INTERCONNECTION. • ACTUAL INTERCHANGE. The metered interchange over a specific INTERCONNECTION between two PHYSICALLY ADJACENT CONTROL AREAS. • TRANSACTION. An agreement arranged by a PURCHASING-SELLING ENTITY to transfer energy from seller to a buyer. • INTERCHANGE TRANSACTION. A TRANSACTION that crosses one or more Control Area boundaries. 	
00-07		
00-08		
00-09		
00-10		
00-11		

Original Title:	Coordinate Interchange
Revised Title:	Coordinate <u>Interchange</u> Transactions

Summary Consideration of Comments on Title:

~~The SAR title has been changed to “Coordinate Transactions.” This change should help clarify the distinction between, “coordinating interchange transactions” and “coordinating net interchange schedules.” The drafting team believes the SAR should address INTERCHANGE TRANSACTIONS as they affect INTERCHANGE SCHEDULES. The SAR is not meant to address NET ACTUAL INTERCHANGE i.e. what is being checked at the meters. The drafting team proposes to change the title of the SAR to “Coordinate Interchange Transactions” clarifying what the SAR intends to address.~~

Discussion from the August 19 Conference Call:

If the drafting team is going to write the SAR around Interchange Transactions, then, we must identify the reliability objective? Is the reliability objective to ensure that both the Balancing Authority and the Reliability Authority must be operating to the exact same schedule at the exact same time? The Reliability Authority is analyzing the transactions that they need to analyze and not pieces of transactions. What else is being transferred across a boundary that is not being analyzed? Some analysis must be made that is adequate for assessing reliability – therefore a certain amount of data is needed.

In the RTO world is the term “Interchange Transaction” as defined in NERC Policy adequate? For all the terms below: Is this an adequate term for this reliability SAR? The drafting team proposes that the SAR should address the proper coordination of scheduled energy and generator related services across the Balancing Authority and RTO boundaries or would the IOS be better captured in another SAR.

Terms Used in NERC Policy

INTERCHANGE TRANSACTION. A TRANSACTION that crosses one or more Control Area boundaries.

INTERCHANGE SCHEDULE. The planned INTERCHANGE between two ADJACENT CONTROL AREAS that results from the implementation of one or more INTERCHANGE TRANSACTION(S).

NET ACTUAL INTERCHANGE. The algebraic sum of all metered interchange over all INTERCONNECTIONS between two PHYSICALLY ADJACENT CONTROL AREAS.

NET SCHEDULED INTERCHANGE. The net of all INTERCHANGE SCHEDULES with all ADJACENT CONTROL AREAS. It is, in essence, the scheduled interchange with the INTERCONNECTION.

ACTUAL INTERCHANGE. The metered interchange over a specific INTERCONNECTION between two PHYSICALLY ADJACENT CONTROL AREAS.

TRANSACTION. An agreement arranged by a PURCHASING-SELLING ENTITY to transfer energy from seller to a buyer.

INTERCHANGE TRANSACTION. A TRANSACTION that crosses one or more Control Area boundaries.

Comment:

This SAR and its scope should be clarified as to the extent to which it addresses "Interchange." It appears that its purpose is to address SCHEDULED Interchange only, but it is simply not clear. We would like to have the title clarified to express the intent of the purpose of the SAR. The resulting scope of measures will be greatly affected by this clarification. (Dairyland)

Original Purpose/Industry Need:

To ensure that the implementation of TRANSACTIONS-transactions between BALANCING BALANCING-AUTHORITIES are coordinated to maintain system reliability.

Revised Purpose/Industry Need:

To ensure that the implementation of transactions-TRANSACTIONS between BALANCING AUTHORITY are coordinated such that the following reliability objectives are met:

- To provide the RELIABILITY AUTHORITY with validated INTERCHANGE TRANSACTION TRANSACTION information to perform security studies.
- To provide the BALANCING AUTHORITY with validated INTERCHANGE TRANSACTIONS TRANSACTIONS for use in developing the respective BALANCING AUTHORITY Net Scheduled interchangeInterchange.

Summary Consideration of Comments on Purpose/Industry Need:

The Purpose/Industry Need for this SAR has been revised based on the comments submitted by industry participants. The SAR addresses the proper coordination of transactions between all involved parties. The reliability objectives that form the basis for this SAR have been identified and added to this SAR. This SAR addresses “What” performance should be achieved without addressing specifically “How” to achieve that performance. The details of “How” to achieve the desired performance may include commercial elements and is left up to each entity.

Comment:

There is inadequate detail in the SAR to determine if the scope of the SAR is appropriate and adequate. What is the reliability objective of coordinating interchange? The description of this Standard presumes the HOW without clearly defining the WHAT. (Illinois Power Company)

Consideration:

The scope of the SAR has been more specifically defined and its reliability objectives have been clearly stated in the revised SAR.

Comment:

Manitoba Hydro believes that the scope of this SAR as defined above, although required, is not a reliability requirement but a Business Standard one. The main concern here is inadvertent flows which is a Business Standards issue. We believe a SAR is required to address reliability requirements related to SCHEDULED Interchange; any monitoring and data requirements related to this function.

The Industry Need has not been defined for this SAR. (Manitoba Hydro)

Consideration:

The scope of the SAR has been more specifically defined to clarify that it is not intended to address business practices. The reliability objectives have been clearly stated in the revised SAR.

Comment:

Add specific measurable boundary conditions. The SAR lacks a description of the objective of this standard - only refers to "maintain system reliability". What are the aspects of reliability it is intended for? Real-time balance? Frequency? System stability? (Reliant Resources)

Consideration:

The objective of the SAR is being revised based on the comments submitted by industry participants. The SAR addresses the proper coordination of transactions between all involved parties.

Comment:

A lack of coordination will not directly impact grid reliability. Reliability is only threatened when a grid operator reacts inappropriately when coordination is lacking. (e.g. Operating limits) (Calpine)

Consideration:

The SAR has been revised to clarify the reliability objectives. The intent of the SAR is to meet the following reliability objectives:

- ~~? To provide the Reliability Authority with valid transaction information, in sufficient detail, to perform security studies.~~
 - ~~? To provide the Balancing Authority with validated transactions for use in developing the respective Balancing Authority net scheduled interchange.~~
 - To provide the RELIABILITY AUTHORITY with validated INTERCHANGE TRANSACTION information to perform security studies.
 - To provide the BALANCING AUTHORITY with validated INTERCHANGE TRANSACTIONS for use in developing the respective BALANCING AUTHORITY Net Scheduled Interchange.
-

Comment:

The purpose/industry need section should start with: The purpose of this standard is to ensure that a consistent, uniformly applied standard is developed for ... (Dynergy, Inc.)

Consideration:

This is a comment that Dynergy submitted on several of the SARs. A standard template has been drafted to ensure that all new standards are written in a consistent format. Your suggestion that we follow a standard format for the SARs is a good one and has been forwarded to the Standards Process Manager.

Original Brief Description:

Establish requirements for defining, assessing, confirming, and implementing ~~I~~INTERCHANGE ~~T~~TRANSACTIONS.

This shall include items such as data, communications, and timing requirements among Reliability Functions.

Revised Brief Description:

Define reliability related data to be verified in ~~validating~~ validating INTERCHANGE TRANSACTIONS in order to address the SAR's purpose and industry need.

Summary Consideration of Comments on Brief Description:

The Brief Description of this SAR has been revised based on the comments submitted by industry participants. The SAR addresses the proper coordination of ~~T~~TRANSACTIONS between all involved parties. The proposed standard would identify what types of data need to be exchanged between functions to ensure the RELIABILITY AUTHORITY has the data needed to perform security analyses and to ensure the BALANCING AUTHORITY has the data needed to develop the ~~N~~NET ~~S~~SCHEDULED ~~I~~INTERCHANGE. This SAR is confined to the "what" and does not go into the "how."

Comment:

Clarify in description that this applies to tagging and scheduling in the real time environment. (Duke Power)

Consideration:

The drafting team revised the Brief Description to explain that the SAR is to address coordination of INTERCHANGE TRANSACTIONS.

Comment:

The description assumes a solution to a problem that is not clearly defined. "...requirements for defining, assessing, confirming, and implementing interchange transactions.." are possible means to achieve some reliability objective. They are not the reliability objectives themselves and should not be presumed to be the only solutions to achieving an underlying reliability objective that is not clearly stated in this SAR. This standard as proposed will be difficult to measure and enforce. There are numerous procedures and requirements that may be required to facilitate the reliability needs, however, not all of them fall under the definition of a core Organization Standard that is measurable. NERC must distinguish these requirements from core Organization Standards and apply an appropriate standards development process for them. (Reliant Resources)

Consideration:

The SAR has been revised to more clearly identify its reliability objectives. The revised Brief Description should clarify that the SAR will only address the reliability-related components of data that must be exchanged between functions to support security studies and for developing net-NET SCHEDULED IINTERCHANGE.

Comment:

The standard should only define the requirement to be met to maintain reliability. How the affected entities comply with the standard are business process issues that should be addressed by NAESB. (Mirant Americas Energy Marketing)

Consideration:

The SAR has been revised to more clearly identify its reliability objectives. The revised Brief Description should clarify that the SAR will only address the reliability-related components of data that must be exchanged between functions to support security studies and for developing ~~net-NET SCHEDULED~~ SCHEDULED INTERCHANGE.

Comment:

Specification of data, communications, data could go beyond principles and expected results. Avoid descriptions on "how to do it".

Caution should be taken to define the principles, but not describe the operation of the ESC system. (Nova Scotia Power Inc.)

Consideration:

The SAR has been revised to more clearly identify its reliability objectives. The revised Brief Description should clarify that the SAR will only address the reliability-related components of data that must be exchanged between functions to support security studies and for developing ~~NNET SSCHEDULED~~ INTERCHANGE. This SAR addresses "what" data must be exchanged and doesn't go beyond that to require utilization of procedures that define "how to do it".

Comment:

Reduce the scope: Items such as data, communications and timing requirements should be defined in this SAR. However, establishing requirements for defining, assessing, confirming and implementing interchange transactions standards be developed in a process which takes into account market and reliability interests. (Allegheny Energy Supply)

Consideration:

The SAR should not include "how" the standard is to be achieved or "how" it is to be implemented but "what" performance is expected.

The standard may identify categories of data, communications, and agreements necessary for ensuring coordination prior to implementation of a ~~TFRANSACTION~~. The industry must decide what to include in the standard by submitting specific comments that identify the elements to be included. The SAR is not intended to address market interests. We expect that the market-related procedures used to support the coordination of INTERCHANGE will be addressed through a NERC/NAESB coordination effort.

Comment:

The SAR should not include "how" the standard is achieved or "how" it is implemented but "what" is expected.

Consideration:

We expect the standard will identify categories of data, communications, and agreements necessary for ensuring coordination prior to implementation of a [TRANSACTION](#). The industry must decide what should be included in the standard by submitting specific comments on the SAR.

Comment:

(Eliminate) all references to HOW this standard would be met such as data, communications, and timing. These tend to be issues as to HOW to achieve the standard not what the standard should be. (Illinois Power Company)

Consideration:

The SAR should not include “how” the standard is to be achieved or “how” it is to be implemented but “what” performance is expected.

The standard may identify categories of data, communications, and agreements necessary for ensuring coordination prior to implementation of a [TRANSACTION](#). The industry must decide what to include in the standard by submitting specific comments that identify the elements to be included. The SAR is not intended to address market interests. We expect that the market-related procedures used to support the coordination of Interchange will be addressed through a NERC/NAESB [coordination](#) effort.

Comment:

Reduce the Scope: eliminate references to commercial/business processes (Mirant Americas Energy Marketing)

Consideration:

The SAR is not intended to address commercial/business processes. If you feel that there is a specific commercial/business process that is being addressed by this SAR, please identify this in your written comments.

Comment:

Re-write description to include "...and timing requirements among Reliability and Balancing Functions." (California ISO)

Consideration:

Communication of timing is required between the [BALANCING AUTHORITY](#), [RELIABILITY AUTHORITY](#), [TRANSMISSION PROVIDER](#), generators, and loads; timing must be agreed to by all functional entities. This SAR addresses timing as an element of data to be exchanged between involved functions, but doesn't address specific time constraints for accomplishing the coordination of [TRANSACTIONS](#).

Comment:

The scope is too general. Interchange information should be coordinated at multiple levels including planning, scheduling, and balancing. (Ameren Services -Energy Delivery Technical Services)

Consideration:

The scope of the SAR is currently limited to addressing scheduled interchange as communicated between two or more functions. The functions included in the SAR are the [RELIABILITY AUTHORITY](#), [INTERCHANGE AUTHORITY](#), [BALANCING AUTHORITY](#), [TRANSMISSION SERVICE PROVIDER AND PURCHASING-SELLING ENTITY](#). If you feel that there are additional functions that should be addressed, please identify the functions and their associated tasks.

The SAR has been revised to more clearly identify its reliability objectives. The revised Brief Description should clarify that the SAR will only address the reliability-related components of data that must be exchanged between functions to support security studies and for developing NET SCHEDULED INTERCHANGE.

The drafting team revised the Brief Description to explain that the SAR is to address coordination of INTERCHANGE TRANSACTIONS.

Comment:

Add specific reliability-based rules governing tagging energy to exactly match energy flow (i.e. not allowing "gaming" the integrated MW-value for the hour). (NIPS (Northern Indiana Public Service Co.)

Consideration:

Matching energy is a function of the Balancing SAR and should be included as a comment to that SAR. This SAR addresses ~~scheduled~~ [INTERCHANGE TRANSACTIONS as they affect INTERCHANGE SCHEDULES](#) as communicated between two or more [Reliability Model](#) functions.¹

This SAR does not address gaming. If gaming denotes a commercial activity then gaming should be addressed in the market monitoring process. This SAR addresses requirements regarding the coordination of individual [TRANSACTIONS](#).

~~Coordination of interchange transactions was the original purpose of the SAR. The Interchange Authority will communicate the approved schedules, ensuring that all entities are in agreement on the scheduled transactions.~~

Comment:

The creation of a standard for the effective coordination of the interconnection is needed to address the way transmission business is conducted in our industry. Currently NERC policy 3 defines the interchange protocol that most of the industry subscribes to. But this protocol is not followed, defined, and implemented uniformly throughout the interconnection. This leads to isolated areas of confusion when balancing the interconnection and conducting business. We need consistent criteria that can be applied to large geographical areas, such as the three basic interconnections. Standards that address the implementation of One-Stop-Shop business, common timing requirements, products, and operational time need to be reviewed. (FirstEnergy Corp)

Consideration:

The NERC Board of Trustees directed that we focus on developing reliability-related standards. Standards that involve business practices and communications protocols will be developed by NAESB, and standards that involve both reliability and commercial practices will most likely be developed through a combined NERC/NAESB standards development process. NERC’s reliability standards are intended to address ‘~~W~~what’ performance must be accomplished, but aren’t necessarily intended to identify ‘~~H~~how’ to achieve that level of performance. NERC’s Policy 3 goes beyond identifying ‘~~W~~what’ performance to achieve, and includes ‘~~H~~how’ to achieve that performance and includes some requirements that have an impact on markets as well as reliability – for these reasons Policy 3 is not a role model for the format of NERC’s new reliability standards.

¹ The functions are identified in the Functional Model and include the [RELIABILITY AUTHORITY, INTERCHANGE AUTHORITY, BALANCING AUTHORITY, PLANNING AUTHORITY, TRANSMISSION SERVICE PROVIDER, TRANSMISSION OWNER, TRANSMISSION OPERATOR, DISTRIBUTION PROVIDER, LOAD-SERVING ENTITY, and PURCHASING-SELLING ENTITY AND GENERATORS](#).

Comment:

Emphasize developing coordinated methods for determining how to handle roll-over rights and partial path reservations in planning models. (American Transmission Company)

Consideration:

This SAR is limited to the reliability-related aspects of coordinating [TRANSACTIONS](#) and is limited to identifying “What” performance should be achieved without delving into the specifics of “How” to achieve that performance. The underlying processes (such as [how](#) to determine roll-over rights) used to support the coordination of [INTERCHANGE](#) contain elements that relate to both reliability and commercial practices and need to be addressed in a joint NERC/NAESB standards development effort.

Comment:

Coordinating interchange should consider Automatic Generation Control (AGC) and Generation Rejection Schemes and their impact on interconnected systems. This indicates that in the Reliability Functions matrix, this Standard should also apply to generators. (Independent Electricity Market Operator (IMO))

Consideration:

AGC and Generation Rejection Schemes are tools that can be used to achieve a performance objective. NERC’s reliability standards are intended to identify ‘[What](#)’ performance should be achieved, without necessarily identifying ‘[How](#)’ to achieve that performance. In developing its new standards development process, industry participants clearly indicated that when NERC’s Policies and Standards delved into “[How](#)” to achieve performance, they sometimes had an unintended, adverse impact on markets.

New Detailed Description:

On the August 14 conference call Carolyn Ingersoll agreed to draft this section. The drafting team will consider Carolyn's draft language on our August 19 conference call.

Original Functions:		
X	Reliability Auth	Ensures the reliability of the bulk transmission system within its Security Authority Area. Highest reliability authority.
X	Balancing Auth	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 -Auth	Authorizes valid and balanced Interchange Schedules
	Planning Auth	Plans the bulk electric system
X	Transmission Service Provider	Provides trans services to qualified market participants under applicable transmission service agreements
	Trans Owner	Owens 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	Owens 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

Summary Consideration of Comments on Applicable Functions:

The functions checked are the functions that would have performance requirements and associated compliance elements in the proposed standard. At this point, the functions that would have performance measures as part of this proposed standard are the [RELIABILITY AUTHORITY](#), [BALANCING AUTHORITY](#), [INTERCHANGE AUTHORITY](#), [TRANSMISSION SERVICE PROVIDER](#) and [PURCHASING-SSELLING ENTITY](#). No performance requirements have been identified that are assigned to the [PLANNING AUTHORITY](#), the [GENERATOR](#) or the [LOAD-SERVING ENTITY](#).

Comment:

The Planning Authority has a role in that long term transactions factor into the planning for the transmission system. (Michigan Electric Coordinated Systems (MECS))

[Consideration:](#)

[See the Drafting teams’ comment - Summary Consideration of Comments on Applicable Functions](#)

Comment:

This is a process that should be part of Coordinate Operation. Even if this is kept as a SAR, additional entities such as the Generator and LSE should be included. (SERC)

Consideration:

[See the Drafting teams' comment - Summary Consideration of Comments on Applicable Functions](#)

Comment:

This standard should also apply to the Generator and Load-Serving Entities functions since those functions are the ultimate source and sink on interchange transactions. (American Transmission Company)

Consideration:

[See the Drafting teams' comment - Summary Consideration of Comments on Applicable Functions](#)

Original 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	

Summary Response to Comments on Principles

Comment:

Reliability Principle #6, "Personnel responsible for planning and operating interconnected bulk electric systems shall be trained, qualified and have the responsibility and authority to implement actions," should be applied to this standard. (American Transmission Company)

Consideration:

DRAFT RESPONSE BY GLS – Your comment will be referred to the Standards Authorization Committee and may be addressed in the Reliability Model’s certification process.

Summary Consideration of Comments on Commercial Practices:

The industry agrees that there are reliability issues in this SAR. The SAR is not intended to address commercial business processes, and we have tried to clarify this with the revisions made to the SAR. If you feel that there are any commercial business practices addressed with the revised SAR, please submit specific comments that identify these so we can make appropriate adjustments to the SAR.

Other Comments on Commercial Practices:

Comment:

This is NOT a reliability standard. It is purely commercial and should be the subject of a NAESB action. NERC, in its participation in the NAESB process can manage the indirect reliability issues as a part of that process. (Calpine)

Comment:

The existing NERC standard Policy 3 includes procedures for market participants to identify commercial transactions for reliability information. These procedures have profound impacts on market activity and should be developed with the NAESB process and filed at FERC for approval. (Reliant Resources)

Comment:

The establishment of this SAR is premature. All commercial implications of the SAR should be identified and mitigated prior to the drafting. (Electricity Consumers Resource Council (ELCON))

Comment:

The SAR needs to focus strictly on setting reliability measures related to coordinating interchange. The effort must be coordinated with any commercial standards which are developed. (Exelon Corporation)

Comment:

~~This one needs a lot of work. Don't ignore the E-tag documentation nor the work of the ESC. Also must stay on top of the upcoming work of NAESB (Bonneville Power Administration—Power Business Line)~~

Comment:

Many of the aspects discussed in SAR#7 seem to involve commercial business practices associated with scheduling transactions (or requesting transactions to be scheduled). We agree that there is a need to standardize the process by which interchange authorities implement interchange schedules. However, any attempt to standardize scheduling requirements to be imposed upon market participants would have significant commercial implications and should be vetted through the NAESB commercial business practice standards process. Hence, the standard should be modified to limit its scope to the purely reliability aspects of implementation of interchange schedules between interchange authorities. (Southern Company)

Comment:

The standard should only define the requirement to be met to maintain reliability. How the affected entities comply with the standard are business process issues that should be addressed by NAESB. (Mirant Americas Energy Marketing)

Consideration:

~~The industry agrees that there are reliability issues in this SAR. The SAR is not intended to address commercial business processes, and we have tried to clarify this with the revisions made to the SAR. If you feel that there are any commercial business practices addressed with the revised SAR, please submit specific comments that identify these so we can make appropriate adjustments to the SAR.~~

Comment:

This one needs a lot of work. Don't ignore the E-tag documentation nor the work of the ESC. Also must stay on top of the upcoming work of NAESB (Bonneville Power Administration - Power Business Line)

Consideration:

DRAFT RESPONSE BY GLS – Drafting Team member include members from the Interchange Subcommittee who oversee Tagging the Electronic Scheduling Collaborative. The Drafting Team is aware of the need for coordination and staying abreast of other group's work.

Summary Consideration of Comments on FERC's Standard Market Design NOPR:

This SAR is limited to the reliability-related aspects of coordinating TRANSACTIONS and is limited to identifying "What" performance should be achieved without delving into the specifics of "How" to achieve that performance. As currently written, this SAR does not include any timing requirements.

The FERC SMD NOPR has been issued and we are reviewing the document to ensure that this standard will be consistent with FERC's ruling. We don't expect any of the requirements of the proposed standard to conflict with FERC approved tariffs. If you are aware of any conflicts, please identify these in your comments so we can address them more specifically.

Comments on FERC's Standard Market Design NOPR

Comment:

To the extent that this SAR is transitioning an existing standard from the old world to the new world (Functional Model), then the standard should not go beyond the original scope. Consistent with our general comments, once the clarity is achieved on Standard Market Design and RTO formations, then this standard should be revisited and reevaluated. (American Electric Power)

Comment:

The promulgation for comment of these SARs is premature. The industry "standard making process" is in a transition phase and it is overly burdensome to devote resources at this time. Once legislation or FERC firmly determines which entity(ies) is responsible for standards it will make sense to move forward with said entity.

Even if NERC wants to cover reliability standards, almost all standards have a reliability and commercial impact; thereby, necessitating developing a single process that incorporates both commercial and reliability aspects of standards development. The current NERC process risks being changed soon, discounts commercial aspects, and is not part of a finalized overall industry process.

Waiting a short while to move forward on a new standards setting process is acceptable and prudent given that NERC standards are currently in place and the industry can continue to use these standards until the new process and standards setting organization(s) are firmly set. (Baltimore Gas & Electric)

Comment:

The requirements in this standard should not conflict with the timing requirements, etc, in the FERC approved tariffs. (American Transmission Company)

Comment:

It is premature to continue development of this SAR until FERC has specified the organization to be responsible for the development of wholesale electric standards. (Public Service Electric & Gas)

Consideration:

This SAR is limited to the reliability-related aspects of coordinating TRANSACTIONS and is limited to identifying "What" performance should be achieved without delving into the specifics of "How" to achieve that performance. The FERC SMD NOPR has been issued and we are reviewing the document to ensure that this standard will be consistent with FERC's ruling.

~~As currently written, this SAR does not include any timing requirements. The timing of a transaction will most likely be one element of data that must be exchanged between functions as part of this proposed standard. We don't expect any of the requirements of the proposed standard to conflict with FERC approved tariffs. If you are aware of any conflicts, please identify these in your comments so we can address them more specifically.~~

Comments Suggesting this SAR be Combined with Other SARs:

Comment:

This SAR is to "ensure that the implementation of transactions are coordinated" by establishing requirements for defining, assessing, confirming and implementing interchange transactions. This shall include items such as data, communications, and timing requirements among Reliability Functions." This SAR is really the details for "how" to coordinate interchange and will define a "process" through business rules, E-Tag, data needs and timing requirements. This SAR is really part of "how" the industry will meet the SARs "Balance Resources and Demand" or "Coordinate Operations". However, we believe this is not a "core reliability" Organization Standard. (Energy Services)

Comment:

This is a process that should be part of Coordinate Operation. Even if this is kept as a SAR, additional entities such as the Generator and LSE should be included. (Progress Energy - Carolina Power & Light Company and Florida Power Corp.)

Comment:

This is a process that should be part of Coordinate Operation. Even if this is kept as a separate SAR, additional entities such as the Generator and LSE should be included. (SERC Compliance Subcommittee)

Comment:

There is a need to coordinate 'basic' transaction information (magnitude, start/end times, ramping duration) and those can be handled as part of the standard to Coordinate Operations.

Leaving this as an ad hoc proposal will lead to the creation of Business procedures and tools that should be outside the scope of Organization Standards. (MAAC)

Comment:

This is a process that should be part of Coordinate Operation. Even if this is kept as a SAR, additional entities such as the Generator and LSE should be included. (Progress Energy - Carolina Power & Light Company and Florida Power Corp.)

Comment:

This is a process that should be part of Coordinate Operation. Even if this is kept as a separate SAR, additional entities such as the Generator and LSE should be included. (SERC Compliance Subcommittee)

Consideration:

The Requestor has indicated a preference for revising this SAR and moving forward in parallel with the SARs that address Coordinate Operations. At this point in the Standards Development Process, the decision on whether to move forward, or withdraw the SAR is left up to the Requestor.

The industry comments indicate that there is a need for a reliability-related standard that addresses coordinating interchange. The SAR has been revised and we don't believe it currently contains any "how" requirements.

Comments Suggesting the Possibility of Regional Differences

Comment:

This SAR and the other posted SARs provide an appropriate framework for transitioning existing NERC Operating Policies and Planning Standards into new, NERC Organization Standards. Multiple compliance measures may be defined and developed for each of the eleven proposed Organization Standards. The Organization Standards and related compliance measures should focus on what functions must be performed for reliability, on who is responsible for each compliance measure for each required function and not, on how the compliance measure is achieved. The compliance measure must be measurable or demonstrable to ensure compliance.

It is necessary that there be a standard addressing interchange between Source and Sink Balancing Authorities. Interchange must be controlled and coordinated so that unscheduled flows are minimized to facilitate balancing of resources and demand (ref. SAR ID# BAL_RES_&_DEMND_01_01).

The Standard developed should recognize the different characteristics of interchange over free flowing synchronous ties and those over controlled interfaces (i.e. DC ties) between Balancing Authorities. These differences may justify different requirements for interchange over these interfaces. (ERCOT)

Comment:

HL&P supports ERCOT's comments regarding the appropriate scope and characteristics of this standard, if a standard is developed. (Reliant Energy HL&P)

Consideration:

Any regional difference that should be included in the scope of the proposed standard should be identified as early in the standard development process as possible.

Comments Suggesting Consideration of Electronic Scheduling Collaborative

Comment:

Eliminate elements that overlap with the ESC. (Powerex)

Consideration:

A response needs to be developed

