

Standard Development Timeline

This section is maintained by the drafting team during the development of the standard and will be removed when the standard becomes effective.

Development Steps Completed

1. SAR posted for comment (July 2, 2008 through July 31, 2008).
2. Revised SAR and response to comments posted (December 1, 2008).
3. SC authorized moving the SAR forward to standard development (December 16–17, 2008).
4. SDT appointed (February 12, 2009).
5. First draft of proposed standard posted (November 10, 2009).
6. Project became inactive until February, 2013.
7. Second draft of standard posted for 30 day informal comment period (July 25-August 23, 2013).

Description of Current Draft

This is the ~~second~~third draft of the proposed standard and is being posted for stakeholder comments and an initial ballot. This draft includes the modifications based on comments submitted by stakeholders, as well as items identified in the SAR and applicable FERC directives from FERC Order 693.

Anticipated Actions	Anticipated Date
45-day Formal Comment Period with Parallel Initial Ballot	July <u>September – October</u> 2013
Recirculation ballot	October <u>December</u> 2013
BOT adoption	November 2013 <u>February 2014</u>
File standard with regulatory authorities.	December 2013 <u>February 2014</u>

Effective Dates

First day of the second calendar quarter ~~beyond~~after the date ~~that~~ this standard is approved by ~~an~~ applicable ~~regulatory authorities, or governmental authority or as otherwise provided for~~ in ~~those jurisdictions~~a jurisdiction where ~~regulatory~~ approval ~~by an applicable governmental authority is required for a standard to go into effect.~~ Where approval by an applicable governmental authority is not required, the standard ~~becomes~~shall become effective on the first day of the ~~second~~first calendar quarter ~~beyond~~that is six months after the date this standard is ~~approved~~adopted by the NERC Board of Trustees, or as otherwise ~~made effective pursuant to the laws applicable to such ERO governmental authorities~~provided for in that jurisdiction.

Version History

Version	Date	Action	Change Tracking
1.0	May 2, 2006	Adopted by the NERC Board Of Trustees	New
2.0	May 2, 2007	Adopted by the NERC Board Of Trustees	Revised
3.0	October 29, 2008	Adopted by the NERC Board Of Trustees	Revised
3.0	July 1, 2010	Approved by FERC	Revised
4.0	TBD	Adopted by the NERC Board Of Trustees	Revised <u>in Project 2008-12</u>

Definitions of Terms Used in Standard

This section includes all newly defined or revised terms used in the proposed standard. Terms already defined in the Reliability Standards Glossary of Terms are not repeated here. ~~New or revised definitions listed below become approved when the proposed standard is approved.~~ When the standard becomes effective, these defined terms will be removed from the individual standard and added to the Glossary.

Proposed Revised Definitions: ~~(redlined to show proposed changes):~~

Arranged Interchange - The state where the ~~Interchange~~-Sink Balancing Authority has received the Interchange information ~~or intra-Balancing Authority transfer information~~ (initial or revised).

Confirmed Interchange - The state where ~~no party has denied and all required parties have approved the Sink Balancing~~ Interchange Authority has verified the Arranged Interchange.

Adjacent Balancing Authority - A ~~Balancing Authority Area whose Balancing Authority Area~~ ~~that~~ is interconnected ~~with~~ another Balancing Authority Area either directly or via a multi-party agreement or transmission tariff.

Intermediate Balancing Authority - A Balancing Authority ~~involved in on the scheduling path of an Interchange Transaction other than the Source Balancing Authority and Sink Balancing Authority. Area that has connecting facilities in the Scheduling Path between the Sending Balancing Authority Area and Receiving Balancing Authority Area and operating agreements that establish the conditions for the use of such facilities.~~

Sink Balancing Authority - The Balancing Authority in which the load (sink) is located for an Interchange Transaction ~~and the resulting Interchange Schedule. (This will also be a Receiving Balancing Authority for the resulting Interchange Schedule.)~~

Source Balancing Authority - The Balancing Authority in which the generation (source) is located for an Interchange Transaction ~~and for the resulting Interchange Schedule. (This will also be a Sending Balancing Authority for the resulting Interchange Schedule.)~~

Proposed New Definition:

Reliability Adjustment Arranged Interchange - Request to modify a Confirmed Interchange or Implemented Interchange for reliability purposes.

When this standard has received ballot approval, the text boxes will be moved to the Application Guidelines Section of the Standard.

A. Introduction

1. **Title:** Evaluation of Interchange Transactions
2. **Number:** INT-006-4
3. **Purpose:** To ensure that entities conduct a reliability assessment of each Arranged Interchange before it is implemented.
4. **Applicability:**
 - 4.1. Balancing Authority
 - 4.2. Transmission Service Provider
5. **Background:**

This standard was revised as part of the Project 2008-12 Coordinate Interchange Standards effort to combine requirements from the various INT standards into a fewer number of standards and in a logical sequence. The focus of INT-006-4 continues to be the reliability assessment of Interchange Transactions prior to their implementation.

The content of INT-006-4 has been revised and expanded in the following manner:

- ~~R1 was created by moving and revising R1 from INT-005-3, which has been retired as part of the project. This requirement ensures that Arranged Interchange is properly distributed to the relevant parties for reliability assessment.~~
- **R2R1** was created by revising R1 from INT-006-3. This requirement ensures that Balancing Authorities involved in an Arranged Interchange actively approve or deny the transition to Confirmed Interchange. The requirement also lists criteria to determine when a Balancing Authority must deny the transition.
- **R3R2** was created by revising R1 from INT-006-3. This requirement ensures that Transmission Service Providers involved in an Arranged Interchange actively approve or deny the transition to Confirmed Interchange. The requirement also lists criteria to determine when a Transmission Service Provider must deny the transition.
- **R4R3** was created by revising R1 from INT-006-3. This requirement ensures that Balancing Authorities who receive a Reliability Adjustment Arranged Interchange actively approve or deny the transition to Confirmed Interchange.
- **R5R4** was created by moving and revising R1 from INT-007-1, which has been retired as part of the project. This requirement lists criteria for when a Sink Balancing Authority shall not transition an Arranged Interchange to Confirmed Interchange.
- **R6R5** was created by moving and revising R1 from INT-008-3, which has been retired as part of the project. This requirement lists the entities to which a Sink

Balancing Authority must distribute notifications of whether an Arranged Interchange has transitioned to Confirmed Interchange.

- Attachment 1 timing tables for WECC were modified to address scheduling on a 15 minute basis.

Requirements and Measures

~~**R1.** Each Sink Balancing Authority shall distribute approve or deny each Arranged Interchange to the Source Balancing Authority, each Intermediate Balancing Authority, and each Transmission Service Provider included in the Arranged Interchange so that these entities can conduct a reliability assessment of the Arranged Interchange before the Arranged Interchange is implemented. When distributing Arranged Interchange, each Sink Balancing Authority shall ensure that each distribution exceeding the times specified in Attachment 1, Column A, does not result in either of the following: [*Violation Risk Factor: Medium*] [*Time Horizon: Operations Planning, Same-day Operations, Real-time Operations*]~~

Rationale for R1: Balancing Authorities must take action on a received Arranged Interchange within a certain time frame. Requirement R1, Parts 1.1 and 1.2 provide reliability-related reasons that a Balancing Authority must deny an Arranged Interchange, but Balancing Authorities may deny for other reasons. If the conditions described in Requirement R1, Parts 1.1 or 1.2 are recognized after approval is granted, the Balancing Authority may curtail the Confirmed Interchange prior to implementation.

- ~~**1.1.** On-time¹ Arranged Interchange where not all Balancing Authorities and Transmission Service Providers either approved or denied as specified in R2, R3, and R4.~~
- ~~**1.2.** On time Arranged Interchange being transitioned to Confirmed Interchange without enough time to incorporate into scheduling systems prior to ramp start as specified in Attachment 1, Column D.~~

~~**M5.** The Sink Balancing Authority shall have evidence (such as dated and time stamped electronic logs, or other evidence) that it distributed each Arranged Interchange to the listed entities and that for those distributions that exceed the times specified in Attachment 1, Column A, neither Part 1.1 or Part 1.2 occurred. (R1)~~

~~**R2.R1.** With the exception of the provisions in R5, each Balancing Authority receiving an on-time Arranged Interchange or an emergency Arranged Interchange shall²~~

Rationale for R2: Balancing Authorities must take action on a received Arranged Interchange within a certain time frame. R2.1 and R2.2 provide reliability-related reasons that a Balancing Authority must deny an Arranged Interchange, but Balancing Authorities may deny for other reasons. If the conditions described in R2.1 or R2.2 are recognized after approval is granted, the Balancing Authority may curtail the Confirmed Interchange prior to implementation.

¹ As defined in INT-006-4 Attachment 1.

² Balancing Authorities are not required to provide

~~approve or deny its transition to Confirmed Interchange that it receives and shall do so~~ prior to the expiration of the ~~reliability assessment~~time period defined ~~in the timing requirements~~ in Attachment 1, Column B. [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning, Same-day Operations, Real-time Operations*]

~~2.1.1.1.~~ Each Source and Sink Balancing Authority shall deny the Arranged Interchange or curtail Confirmed Interchange if it does not expect to be capable of supporting the magnitude of the Interchange, including ramping, throughout the duration of the Arranged Interchange.

~~2.2.1.2.~~ Each Balancing Authority shall deny the Arranged Interchange or curtail Confirmed Interchange if the scheduling path (proper connectivity of Adjacent Balancing Authorities) between it and its Adjacent Balancing Authorities is invalid.

M1. ~~Unless otherwise addressed by the provisions in Requirement R4, each~~Each Balancing Authority shall have evidence (such as dated and time stamped electronic logs, or other evidence) that it responded to each request for its approval to transition an Arranged Interchange to a Confirmed Interchange within the time defined in Attachment 1, Column B. (~~R2~~R1)

Rationale for R2: TSPs must take action on a received Arranged Interchange within a certain time frame. Requirement R2, Part 2.1 provides

~~R3-R2.~~ Each Transmission Service Provider ~~receiving an~~shall ~~approve or deny each~~ on-time Arranged Interchange or ~~an~~ emergency Arranged Interchange, ~~shall³ approve or deny its transition to Confirmed Interchange that it receives and shall do so~~ prior to the expiration of the ~~reliability assessment~~time period defined ~~in the timing requirements~~ in Attachment 1, Column B. [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning, Same-day Operations, Real-time Operations*]

~~Rationale for R3: TSPs must take action on a received Arranged Interchange within a certain time frame. R3.1 provides reliability-related reasons that a TSP must deny an Arranged Interchange, but TSPs may deny for other reasons. If the conditions described in R3.1 are recognized after approval is granted, the TSP may curtail the Confirmed Interchange prior to implementation.~~

~~3.1.2.1.~~ Each Transmission Service Provider shall deny the Arranged Interchange or curtail Confirmed Interchange if the transmission path (proper connectivity of adjacent Transmission Service Providers) between it and its adjacent Transmission Service Providers is invalid.

M2. Each Transmission Service Provider shall have evidence (such as dated and time stamped electronic logs, studies, or other evidence) that it responded to each request for its approval to transition an Arranged Interchange to a Confirmed Interchange within the time defined in Attachment 1, Column B. If the transmission path between the

³~~Transmission Service Providers are not required to provide responses to any other requests.~~

Transmission Service Provider and its adjacent Transmission Service Providers is invalid, each Transmission Service Provider shall have evidence (such as dated and time stamped electronic logs, studies, or other evidence) that it denied the Arranged Interchange or curtailed confirmed Interchange. (~~R3R2~~)

~~R4.R3.~~ R4.R3. Each ~~The Source Balancing Authority and the Sink~~ Balancing Authority receiving a Reliability Adjustment Arranged Interchange shall approve or deny it prior to the expiration of the ~~reliability assessment~~time period defined ~~in the timing requirements~~ in Attachment 1, Column B. [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning, Same-day Operations, Real-time Operations*]

~~4.1.3.1.~~ 4.1.3.1. If a Balancing Authority denies a Reliability Adjustment Arranged Interchange, the Balancing Authority must communicate that fact to its Reliability Coordinator no more than 10 minutes after the denial.

~~M4.~~ M3. Each Balancing Authority shall have evidence (such as dated and time stamped electronic logs, studies, or other evidence) that when responding to a Reliability Adjustment Arranged Interchange, it either approved the request or denied the request or that it communicated denial to the Reliability Coordinator no more than 10 minutes after the denial. (~~R4R3~~)

~~R5.R4.~~ R5.R4. Each Sink Balancing Authority shall ~~not transition~~confirm that none of the following conditions exist prior to transitioning an Arranged Interchange to Confirmed Interchange ~~under any of the following conditions~~: [*Violation Risk Factor: Lower*] [*Time Horizon: Operations Planning, Same-day Operations, Real-time Operations*]

- It is a Reliability Adjustment Arranged Interchange, the time period specified in Attachment 1, Column B has elapsed, and the Source Balancing Authority or the Sink Balancing Authority associated with the Arranged Interchange has not communicated its approval of the transition.
- It is not a Reliability Adjustment Arranged Interchange, the time period specified in Attachment 1, Column B, has elapsed, and not all Balancing Authorities and Transmission Service Providers associated with the Arranged Interchange have communicated their approval of the transition.
- It is not a Reliability Adjustment Arranged Interchange, the time period specified in Attachment 1, Column B, has elapsed, and any entity associated with the Arranged Interchange has communicated its denial of the transition.

~~M4.~~ M4. Each Sink Balancing Authority shall have evidence (such as dated and time stamped electronic logs, studies, or other evidence) that, under the conditions in ~~R5.1, R5.2, or R5.3~~R4, it did not transition an Arranged Interchange to Confirmed Interchange. (R4)

~~R6.R5.~~ ~~Each Sink Balancing Authority shall distribute all notifications of whether an~~For each Arranged Interchange ~~was~~that is transitioned to Confirmed Interchange ~~to, the Sink Balancing Authority shall notify~~ the following entities, ~~and notifications of the on-time Confirmed Interchange shall be distributed~~ such that ~~they are~~the notification is delivered in time to be incorporated into scheduling systems prior to ramp start as specified in Attachment 1, Column D: *[Violation Risk Factor: Lower] [Time Horizon: Operations Planning, Same-day Operations, Real-time Operations]*

~~6.1.5.1.~~ The Source Balancing Authority,

~~6.2.5.2.~~ Each Intermediate Balancing Authority,

~~6.3.5.3.~~ Each Reliability Coordinator associated with each Balancing Authority included in the Arranged Interchange,

~~6.4.5.4.~~ Each Transmission Service Provider included in the Arranged Interchange, and

~~6.5.5.5.~~ Each Purchasing Selling Entity included in the Arranged Interchange.

M5. Each Balancing Authority shall have evidence (such as dated and time stamped electronic logs, or other evidence) that it ~~distributed notification of whether an Arranged Interchange was transitioned to Confirmed Interchange to~~notified the listed entities, ~~and that for an of the on-time Confirmed Interchange, such that the distribution was~~notification is delivered in time to be incorporated into scheduling systems prior to ramp start as specified in Attachment 1, Column D. (~~R6R5~~)

B. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

Regional Entity

1.2. Evidence Retention

The Balancing Authority and Transmission Service Provider shall each keep data or evidence to show compliance as identified below unless directed by its Compliance Enforcement Authority to retain specific evidence for a longer period of time as part of an investigation. For instances where the evidence retention period specified below is shorter than the time since the last audit, the CEA may ask an entity to provide other evidence to show that it was compliant for the full time period since the last audit.

- The Balancing Authority shall maintain evidence to show compliance with R1, R2, R4, ~~R5~~, and ~~R6R5~~ for the most recent three calendar months plus the current month.
- The Transmission Service Provider shall maintain evidence to show compliance with R3 for the most recent three calendar months plus the current month.
- If a Balancing Authority or Transmission Service Provider is found non-compliant, it shall keep information related to the non-compliance until found compliant.

The Compliance Enforcement Authority shall keep the last audit records and all requested and submitted subsequent audit records.

1.3. Compliance Monitoring and Assessment Processes:

Compliance Audits

Self-Certifications

Spot Checking

Compliance Investigations

Self-Reporting

Complaint

1.4. Additional Compliance Information

None

Table of Compliance Elements

R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
R1	Operations Planning, Same-day Operations, Real-time Operations	Medium	N/A	N/A	The Sink Balancing Authority did not distribute an Arranged Interchange to all of the entities listed in the requirement.	The Sink Balancing Authority did not distribute an Arranged Interchange to any of the entities listed in the requirement. OR The Sink Balancing Authority distributed an Arranged Interchange exceeding the times specified in Attachment 1 Column A that resulted in one or more of the conditions described in Requirement R1 Parts 1.1 and 1.2.
R2 <u>R1</u>	Operations Planning, Same-day Operations, Real-time Operations	Lower	N/A	N/A	N/A	When not subject to the provisions in Requirement R5, the The Balancing Authority receiving an on-time Arranged Interchange or an emergency Arranged Interchange did not approve or deny its transition to Confirmed Interchange prior to the expiration of the reliability assessment time period defined in the timing requirements in Attachment 1,

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R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
						<p>Column B.</p> <p>OR</p> <p>The Source or Sink Balancing Authority did not expect to be capable of supporting the magnitude of the Interchange, including ramping, throughout duration of the Arranged Interchange and did not deny the Arranged Interchange.</p> <p>OR</p> <p>The scheduling path between the Balancing Authority and its Adjacent Balancing Authorities was invalid, and the Balancing Authority did not deny the Arranged Interchange.</p>
<u>R3R2</u>	Operations Planning, Same-day Operations, Real-time Operations	Lower	N/A	N/A	N/A	<p>The Transmission Service Provider receiving an on-time Arranged Interchange or an emergency Arranged Interchange did not approve or deny its transition to Confirmed Interchange prior to the expiration of the reliability assessment time period defined in the timing requirements in Attachment 1,</p>

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R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
						<p>Column B.</p> <p>OR</p> <p>The transmission path between the Transmission Service Provider and its adjacent Transmission Service Providers was invalid, and the Transmission Service Provider did not deny the Arranged Interchange or curtail Confirmed Interchange.</p>
R <u>R3</u>	Operations Planning, Same-day Operations, Real-time Operations	Lower	N/A	N/A	<p>The<u>The Source Balancing Authority or Sink</u> Balancing Authority receiving a Reliability Adjustment Arranged Interchange denied it prior to the expiration of the reliability assessment<u>time</u> period defined in the timing requirements in Attachment 1, Column B, but did not communicate that fact to its Reliability Coordinator within 10 minutes of the denial.</p>	<p>The<u>The Source Balancing Authority or Sink</u> Balancing Authority receiving a Reliability Adjustment Arranged Interchange did not approve or deny it prior to the expiration of the reliability assessment<u>time</u> period defined in the timing requirements in Attachment 1, Column B.</p>
R <u>R4</u>	Operations Planning, Same-day Operations, Real-time	Lower	N/A	N/A	N/A	<p>One<u>The Sink Balancing Authority failed to confirm that none</u> of the conditions in Requirement 5 Parts 5.1, 5.2, or 5.3 was met, and the Sink</p>

Standard INT-006-4 — Evaluation of Interchange Transactions

R #	Time Horizon	VRF	Violation Severity Levels			
			Lower VSL	Moderate VSL	High VSL	Severe VSL
	Operations					Balancing Authority transitioned 4 existed before transitioning an Arranged Interchange to Confirmed Interchange.
R6 R5	Operations Planning, Same-day Operations, Real-time Operations	Lower	N/A	N/A	<p>The Sink Balancing Authority did not distribute notification of whether an Arranged Interchange was transitioned to Confirmed Interchange tonotify all of the entities listed in Requirement R6R5 Parts 65.1-6.5.55 of the on-time Confirmed Interchange.</p> <p>OR</p> <p>The Sink Balancing Authority distributed notifications of whether an Arranged Interchange was transitioned tonotified the entities listed in Requirement R5 Parts 5.1-5.5 of the on-time Confirmed Interchange, but did not distributenotify the notifications such that they were deliveredentities in time for the notification to be incorporated into scheduling systems prior to ramp start as specified in Attachment 1, Column D.</p>	

C. Regional Variances

None.

D. Interpretations

None.

E. Associated Documents

None.

Attachment 1 – Timing Tables

Timing Requirements for all Interconnections except WECC

		A	B	C	D
If Arranged Interchange ⁴ is Submitted	Time Classification	Sink BA Makes Initial Distribution of Arranged Interchange ⁵	BA and TSP Conduct Reliability Assessments	Compilation and Distribution Status ⁵	BA Prepares Confirmed Interchange for Implementation
> 1 hour after the start time	ATF	≤ 1 minute from receipt	Entities have up to 2 hours to respond.	≤ 1 minute from receipt of all Reliability Assessments	NA
<15 minutes prior to ramp start and ≤1 hour after the start time	Late	≤ 1 minute from receipt	Entities have up to 10 minutes to respond.	≤ 1 minute from receipt of all Reliability Assessments	≤ 3 minutes after receipt of Confirmed Interchange
<1 hour and ≥ 15 minutes prior to ramp start	On-time	≤ 1 minute from receipt	≤ 10 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start
≥ 1 hour to < 4 hours prior to ramp start	On-time	≤ 1 minute from receipt	≤ 20 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 39 minutes prior to ramp start
≥ 4 hours prior to ramp start	On-time	≤ 1 minute from receipt	≤ 2 hours from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 1 hour 58 minutes prior to ramp start

⁴ Time Classifications and deadlines apply to both initial Arranged Interchange submittal and any subsequent modifications to the Arranged Interchange.

~~⁵ Times are for software performance specifications, only. See NAESB WEQ004. The times are being retained in the NAESB tables but are removed here since they are not being referenced in requirements.~~

Attachment 1 – Timing Tables

Timing Requirements for WECC

		A	B	C	D
If Arranged Interchange ⁶ is Submitted	Time Classification	Sink BA Makes Initial Distribution of Arranged Interchange ⁷	BA and TSP Conduct Reliability Assessments	Compilation and Distribution Status ⁷	BA Prepares Confirmed Interchange for Implementation
>1 hour after the start time	ATF	≤ 1 minute from receipt	Entities have up to 2 hours to respond.	≤ 1 minute from receipt of all Reliability Assessments	NA
<10 minutes prior to ramp start and ≤1 hour after transaction start time where transaction start time is at the top of the hour	Late	≤ 1 minute from receipt	Entities have up to 10 minutes to respond.	≤ 1 minute from receipt of all Reliability Assessments	≤ 3 minutes after receipt of Confirmed Interchange
<15 minutes prior to ramp start and ≤1 hour after transaction start time where transaction start time is not the top of the hour	Late	≤ 1 minute from receipt	Entities have up to 10 minutes to respond.	≤ 1 minute from receipt of all Reliability Assessments	≤ 3 minutes after receipt of Confirmed Interchange
10 minutes prior to ramp start where transaction start time is at the top of the hour	On-time	≤ 1 minute from receipt	≤ 5 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start
11 minutes prior to ramp start where transaction start time is at the top of	On-time	≤ 1 minute from receipt	≤ 6 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start

⁶ Time Classifications and deadlines apply to both initial Arranged Interchange submittal and any subsequent modifications to the Arranged Interchange.

⁷ ~~Times are for software performance specifications, only.~~ See NAESB WEQ004. The times are being retained in the NAESB tables but are removed here since they are not being referenced in requirements.

Standard INT-006-4 — Evaluation of Interchange Transactions

		A	B	C	D
If Arranged Interchange ⁶ is Submitted	Time Classification	Sink BA Makes Initial Distribution of Arranged Interchange ⁷	BA and TSP Conduct Reliability Assessments	Compilation and Distribution Status ⁷	BA Prepares Confirmed Interchange for Implementation
the hour					
12 minutes prior to ramp start where transaction start time is at the top of the hour	On-time	≤ 1 minute from receipt	≤ 7 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start
13 minutes prior to ramp start where transaction start time is at the top of the hour	On-time	≤ 1 minute from receipt	≤ 8 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start
14 minutes prior to ramp start where transaction start time is at the top of the hour	On-time	≤ 1 minute from receipt	≤ 9 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start
<1 hour and ≥ 15 minutes prior to ramp start	On-time	≤ 1 minute from receipt	≤ 10 minutes from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 3 minutes prior to ramp start
≥ 1 hour and < 4 hours prior to ramp start	On-time	≤ 1 minute from receipt	< 20 minutes from Arranged interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 39 minutes prior to ramp start
≥ 4 hours prior to ramp start	On-time	≤ 1 minute from receipt	≤ 2 hours from Arranged Interchange receipt	≤ 1 minute from receipt of all Reliability Assessments	≥ 1 hour 58 minutes prior to ramp start
Submitted before 10:00 PPT with start time ≥ 00:00 PPT of following day	On-time	≤ 1 minute from receipt	By 12:00 PPT of day the Arranged Interchange was received	≤ 1 minute from receipt of all Reliability Assessments	≥ 1 hour 58 minutes prior to ramp start

Application Guidelines

Guidelines and Technical Basis

Many aspects of managing interchange are supported by software applications. There are fundamental tasks that each entity should be able to perform in an electronic manner as listed below.

A Load-Serving Entity and Balancing Authority that submits Requests for Interchange should have the capability to electronically:

- Submit a Request for Interchange to a Sink Balancing Authority
- Submit a request to modify Interchange
- Receive distributions of Confirmed Interchange
- Receive distributions of Reliability Adjustment Arranged Interchanges

Each Sink Balancing Authority should have the capability to electronically:

- Receive a Request for Interchange
- Receive a request to modify Interchange
- Validate Requests for Interchange by verifying:
 - Source Balancing Authority megawatts equal Sink Balancing Authority megawatts (adjusted for losses, if appropriate).
 - All reliability entities involved in the Arranged Interchange are valid.
 - Generation source and load sink are defined.
 - Megawatt profile is defined.
 - Interchange duration is defined.
- Validate request to modify Interchange by verifying:
 - Source Balancing Authority megawatts equal Sink Balancing Authority megawatts (adjusted for losses, if appropriate).
 - Megawatt profile is defined.
 - Interchange duration is defined.
- Distribute the validated Request for Interchange as Arranged Interchange
- Distribute the validated Reliability Adjustment Arranged Interchanges
- Receive communication of approval or denial of Arranged Interchange
 - Distribute notification as each entity approves or denies an Arranged Interchange.
 - Transition Arranged Interchange to Confirmed Interchange if all approvals are received.
 - Distribute notification of whether Arranged Interchange was transitioned to Confirmed Interchange or not.

Application Guidelines

- Submit a request to modify Interchange
- Each Load-Serving Entity that approves or denies Arranged Interchange, and each Balancing Authority and Transmission Service Provider should have the capability to electronically:
 - Receive distribution of Arranged Interchange
 - Communicate approval or denial of the Arranged Interchange to the Sink Balancing Authority
 - Receive notification of whether Arranged Interchange was transitioned to Confirmed interchange or not.
 - Submit a request to modify Interchange
- While interchange is normally facilitated using electronic communication and software tools, there are occasions with those electronic capabilities are reduced or unavailable. It is recommended that all entities involved in aspects of Interchange should have, maintain and implement a plan describing the manner and timing in which all capabilities listed above will be provided when electronic capabilities are reduced or unavailable. Each plan should address the following topics:
 - Alternate methods of communicating Interchange information between Purchasing Selling Entities, Balancing Authorities, and Transmission Service Providers.
 - How to notify others that it is activating the plan
 - How it will process requests for emergency Arranged Interchange and Reliability Adjustment Arranged Interchange.
 - Restrictions and limitations that may apply during the period of reduced or unavailable capability (such as limits on volume, only accepting emergency transactions, etc.).
 - Delegation of approval rights and proxy actions, if such approaches will be used.
 - How known Confirmed Interchange will be scheduled following a reduction in or loss of capability.
 - Personnel plans for short-term and extended periods.
 - Training of personnel in the use of the plan.