

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>2013</u> December <u>2013</u>
BOT adoption	November 2013 <u>February 2014</u>
File standard with regulatory authorities.	December <u>2013</u> <u>February 2014</u>

Effective Dates

~~First~~The first day of the ~~second~~first calendar quarter ~~beyond~~that is six months 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
0	April 1, 2005	Effective Date	New
1	May 2, 2006	Adopted by the NERC Board of Trustees	Revised
2	TBD	Adopted by the NERC Board of Trustees	Revised under Project 2008-12

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 revisions to existing definitions (redlined to show changes):

Dynamic Interchange Schedule or Dynamic Schedule: A time-varying energy transfer ~~telemetered reading or value~~ that is updated in real time and ~~used~~ included in the Net Interchange Scheduled term in the same manner as an Interchange Schedule in the affected Balancing Authorities' control ACE equations (or alternate control processes). ~~as a schedule in the AGC/ACE equation and the integrated value of which is treated as a schedule for interchange accounting purposes. Commonly used for scheduling jointly owned generation to or from another Balancing Authority Area.~~

Pseudo-Tie tie: A time-varying energy transfer ~~telemetered reading or value~~ that is updated in real time and included in the Net Interchange Actual term in the same manner as a Tie Line in the affected Balancing Authorities' control ACE equations (or alternate control processes). ~~used as a "virtual" tie line flow in the AGC/ACE equation but for which no physical tie or energy metering actually exists. The integrated value is used as a metered MWh value for interchange accounting purposes.~~

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.

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.

~~**Composite Confirmed Interchange**—The energy profile (including non-default ramp) throughout a given time period, based on the aggregate of all Confirmed Interchange occurring in that time period.~~

Proposed new definitions:

Attaining Balancing Authority: A Balancing Authority bringing generation or load into its effective control boundaries through a dynamic transfer from the Native Balancing Authority.

Native Balancing Authority: A Balancing Authority from which a portion of its physically interconnected generation and/or load is transferred from its effective control boundaries to the Attaining Balancing Authority through a dynamic transfer.

Composite Confirmed Interchange – The energy profile (including non-default ramp) throughout a given time period, based on the aggregate of all Confirmed Interchange occurring in that time period.

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:** Implementation of Interchange
2. **Number:** INT-009-2
3. **Purpose:** To ensure that Balancing Authorities implement the Interchange as agreed upon in the Interchange confirmation process and maintain the generation-to-load balance.
4. **Applicability:**
 - 4.1. Balancing Authority.
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-009-2 continues to be the Balancing Authority to Balancing Authority Interchange confirmation process for Interchange Transactions prior to their implementation.

The Requirements in INT-009-2 have been expanded to include previous Measures from INT-009-1 and acknowledge Dynamic Schedules and Pseudo-Ties. A new term “Composite Confirmed Interchange” has been introduced.

The content of INT-009-2 has been revised and expanded in the following manner:

- R1 was combined with INT-003-3 R1 and modified to ensure that a Balancing Authority agrees to a Composite Confirmed Interchange with each of its Adjacent Balancing Authorities.
- R2 was created to ensure that Adjacent Balancing Authorities incorporating a Pseudo-Tie agree to a common source for their Net Interchange Actual term for their ACE controls.
- R3 was created by revising R1.2 from INT-003-3. This requirement ensures that the Balancing Authority that controls an HVDCa high-voltage direct current tie coordinates the Confirmed Interchange.

B. Requirements and Measures

- R1. Each Balancing Authority shall agree with each of its Adjacent Balancing Authorities that its Composite Confirmed Interchange with that Balancing Authority, at mutually agreed upon time intervals, excluding Dynamic Schedules and Pseudo-Ties and including any interchange as directed by a Reliability Coordinator per INT-010-2 not yet captured in the Composite Confirmed Interchange, is: [*Violation Risk Factor: Medium*] [*Time Horizon: Real Time Operations*]
 - 1.1. Identical in magnitude to that of the Adjacent Balancing Authority, and
 - 1.2. Opposite in sign to that of the Adjacent Balancing Authority.

M1. The Balancing Authority shall have evidence (such as dated logs, voice recordings, electronic records, or other evidence) that its Composite Confirmed Interchange, excluding Dynamic Schedules and including any interchange as directed per INT-010-2 not yet captured in the Composite Confirmed Interchange, was agreed to by each Adjacent Balancing Authority, identical in magnitude to those of each Adjacent Balancing Authority, and opposite in sign to that of each Adjacent Balancing Authority. (R1)

R2. The Attaining Balancing Authority and the Native Balancing Authority shall use a dynamic value emanating from an agreed upon common source to account for the Pseudo-Tie in the Net Interchange Actual term of their respective control ACE (or alternate control process).
[Violation Risk Factor: Medium] [Time Horizon: Real Time Operations]

Rationale for R2: R12.3 of BAL-005-2b addresses common metering for Dynamic Schedules and Pseudo-Ties but not their implementation into ACE. Requirement R2 is equivalent to R10 of BAL-005-2b which addresses Dynamic Schedules.

M2. The Balancing Authority shall have evidence (such as dated logs, voice recordings, electronic records, written agreement or other evidence) that it used a dynamic value emanating from an agreed upon common source to account for the Pseudo-Tie in the Net Interchange Actual term of their respective control ACE (or alternate control process). (R2)

R3. Each Balancing Authority in whose area the HVDC high-voltage direct current tie is controlled shall coordinate the Confirmed Interchange prior to its implementation with the Transmission Operator of the HVDC high-voltage direct current tie if applicable.
[Violation Risk Factor: Medium] [Time Horizon: Real Time Operations, Operations Planning]

M3. The Balancing Authority shall have evidence (such as dated logs, electronic records, or other evidence) that it coordinated the Confirmed Interchange prior to its implementation with the Transmission Operator of the HVDC high-voltage direct current tie. (R3)

C. Compliance

1. Compliance Monitoring Process

1.1. Compliance Enforcement Authority

Regional Entity

1.2. Evidence Retention

The Balancing Authority shall 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 and R3 for the most recent 3 months plus the current month.

If a Balancing Authority 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 Investigation

Self-Reporting

Complaints

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	Real Time Operations	Medium	N/A	N/A	N/A	The Balancing Authority did not reach agreement with an Adjacent Balancing Authority on the magnitude or sign of its Composite Confirmed Interchange, excluding Dynamic Schedules and including any interchange as directed <u>by a Reliability Coordinator</u> per INT-010-2 not yet captured in the Composite Confirmed Interchange, for that hour.
R2	Real Time Operations	Medium	N/A	N/A	N/A	The Balancing Authority failed to use a dynamic value emanating from an agreed upon common source to account for the Pseudo-Tie in the Net Interchange Actual term of their respective control ACE (or alternate control process).
R3	Real Time Operations, Operations Planning	Medium	N/A	N/A	N/A	The Balancing Authority failed to coordinate the Confirmed Interchange prior to its implementation with the Transmission Operator of the <u>HVDC high-voltage direct current</u> tie.

D. Regional Variances

None.

E. Interpretations

None.

F. Associated Documents

None.

Application Guidelines

Guidelines and Technical Basis

Requirement R1:

Requirement R2:

Requirement R3: