
BAL-005-1 – Balancing Authority Control and FAC-001-3 – Facility Interconnection Requirements

1. OVERVIEW OF THE STANDARDS

1.1. Applicability

The functions covered by BAL-005-1 and FAC-001-3 are indicated in the table below.

Standards	Functions Covered
BAL-005-1	Balancing Authority (BA)
FAC-001-3	Transmission Owner (TO) Generator Owner (GO)

1.2. Purpose of the Reliability Standards

BAL-005-1 deals specifically with the requirements for acquiring the data needed to calculate the Reporting Area Control Error¹ (Reporting ACE). The standard also specifies a minimum periodicity, accuracy, and availability requirement for acquisition of the data and for providing the information to the System Operator.

FAC-001-3 compels Transmission Owners (TO) and Generation Owners (GO) to document facility interconnection requirements, to keep this documentation up to date and to make it available. These facility interconnection requirements cover all system reliability-related fields and set a minimum performance standard that all interconnected facilities must meet, whether they are new or modified.

1.3. Regulatory Context

These standards replace BAL-005-0.2b and FAC-001-2, adopted by the Régie de l'énergie (hereinafter "the Régie") in Decision D-2016-195,² and have been in effect in Québec since January 1, 2017, and January 1, 2018, respectively.

BAL-005-1 and FAC-001-3 were adopted by the NERC Board of Trustees on February 11, 2016, and approved by FERC on September 20, 2017, in Order No. 836.³ They have been effective in the United States since January 1, 2019.

1.4. Specific Provisions for Québec

The Reliability Coordinator is not proposing any specific provisions for BAL-005-1 but does renew the provisions of FAC-001-2 Section A.4.2 with some simplification.

¹ Glossary of Terms Used in Reliability Standards, page 2, consulted online at: http://www.regie-energie.qc.ca/audiences/NormesFiabiliteTransportElectricite/HQCME_Glossaire_15mars2019.pdf

² Régie de l'Énergie, Decision D-2016-195, consulted online on June 28, 2019, at: http://publicsde.regie-energie.qc.ca/projets/332/DocPrj/R-3944-2015-A-0062-Dec-Dec-2016_12_22.pdf

³ FERC Order No. 836, consulted online on June 28, 2019, at: https://www.nerc.com/FilingsOrders/us/FERCOrdersRules/E-1_Order%20No%20836.pdf

1.5. Proposed Effective Dates

BAL-005-1 and FAC-001-3 shall become effective at the same time⁴ to ensure that entities that own facilities in the Interconnection are assigned to a Balancing Authority Area. The NERC Implementation Plan⁵ stipulates that BAL-005-1 must take effect at the same time as BAL-001-2 or afterwards. BAL-001-2 is already in effect in Québec.

In the United States, the implementation plan for BAL-005-1 stipulates a period of 12 months between government approval and implementation of this standard.

In Québec, the Reliability Coordinator proposes a period of 12 months between the adoption by the Régie and the effective date of the standards.

1.6. Standards or Requirements to Retire

To be retired	Comments
BAL-005-0.2b	BAL-005-0.2b, in effect since January 1, 2017, will have to be retired as soon as BAL-005-1 comes into effect.
FAC-001-2	FAC-001-2, in effect since January 1, 2018, will have to be retired as soon as FAC-001-3 comes into effect.
BAL-006-2, Requirement R3	NERC moved Requirement R3 of BAL-006-2 to FAC-001-3. BAL-006-2 has been in effect in Québec since April 1, 2015. Decision D-2018-179 ⁶ has already suspended its other requirements. Since Requirement R3 has been moved, BAL-006-2 will have to be retired as soon as BAL-002-3 comes into effect.

1.7. Modifications to the Glossary

Modifications to the Glossary shall take effect on the effective date of BAL-005-1 and FAC-001-3.

The following terms will be added:

- Actual Frequency
- Interchange Meter Error
- Automatic Time Error Correction
- Actual Net Interchange
- Scheduled Net Interchange

The following terms will be retired :

- Net Actual Interchange
- Net Scheduled Interchange

The following terms will be modified:

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- Reporting ACE

⁴ Implementation Plan – Reliability Standard FAC-001-3, consulted online on June 28, 2019, at: https://www.nerc.com/pa/Stand/Project%2020101421%20Phase%202%20DL/2010-14_2_1_FAC-001-3_Implementation_Plan-Clean-20150715.pdf

⁵ Implementation Plan – Reliability Standard BAL-005-1, consulted online on June 28, 2019, at: https://www.nerc.com/pa/Stand/Project%2020101421%20Phase%202%20DL/BAL-005-1_Implementation_Plan_Clean_01272016.pdf

⁶ Régie de l'énergie, Décision D-2018-179, consulted online on June 28, 2019 at: publicsde.regie-energie.qc.ca/projets/481/DocPri/R-4068-2018-A-0006-Dec-Dec-2018_12_11.pdf

- Automatic Generation Control
- Pseudo-Tie
- Balancing Authority

The definitions of these terms, in French and English, are provided in the document “Modifications au Glossaire.”

2. ASSESSMENT OF RELEVANCE

NERC must periodically review each reliability standard at least once every ten years. The modifications to BAL-005-0.2b (nine requirements were removed, and Requirement R1 was moved to FAC-001^{7,8}) are the result of this periodic review.⁹ The revisions made to FAC-001-3 and BAL-005-1 are from the same NERC project, i.e., Project 2010-14.2.1. They were intended to ensure that Transmission Owners (TO) and Generator Owners (GO) covered by facility interconnection requirements are within a Balancing Authority's (BA) metering boundaries.

The purpose of the project was to clarify and consolidate existing requirements regarding frequency control. BAL-005-1 provides for better understanding and sharper definition of the Reporting ACE calculation in that the Reporting ACE is an important indicator of frequency control reliability.

In accordance with the agreement made in 2009 between the Régie, NERC and the NPCC and with the authorization of the Québec government,¹⁰ this standard was developed and approved by external agencies for North America, including Québec. In the opinion of the Reliability Coordinator, these two standards are relevant for system reliability in Québec and contribute to harmonization with neighboring systems.

⁷ Project 2010-14.2.1 Mapping Document (Transition of BAL-005-0.2b to BAL-005-1), consulted online on June 28, 2019, at: https://www.nerc.com/pa/Stand/Project%2020101421%20Phase%20%20DL/BAL-005-1_Mapping_Document-Clean-20150510.pdf

⁸ Project 2010-14.2.1 Mapping Document (Transition of FAC-001-2 to FAC-001-3), consulted online on June 28, 2019, at: https://www.nerc.com/pa/Stand/Project%2020101421%20Phase%20%20DL/FAC-001-3_Mapping_Document-Clean-20150510.pdf

⁹ Periodic Review of BAL-005-02.b – Automatic Generation Control and BAL-006-2 – Inadvertant Interchange (Recommendation to Revise both Standards), consulted online on June 28, 2019, at: https://www.nerc.com/pa/Stand/Project%20201014%20Phase%20%20of%20Balancing%20Authority%20Re/Recommendation_to_Revise_BAL-005_and_BAL-006_Clean_BAL_PRT_FINAL_07162014.pdf

¹⁰ Agreement entered into in accordance with Order-in-Council 443-21009 dated April 8, 2019.

3. PRELIMINARY IMPACT ASSESSMENT

This section presents the Reliability Coordinator's preliminary impact assessment.

BAL-005-1	Low	Moderate	High
Implementation of the standard	X		
Enforcement of the standard	X		
Compliance monitoring	X		

FAC-001-3	Low	Moderate	High
Implementation of the standard	X		
Enforcement of the standard	X		
Compliance monitoring	X		

Legend:

Low: Normal industry practice that only requires minor adjustments to existing processes or practices.

Moderate: Change that requires allocation of some physical, human or financial resources to implement the proposed standard, maintain it or monitor its compliance.

High: Change that requires allocation of significant physical, human or financial resources to plan and implement the proposed standard, maintain it or monitor its compliance.

4. FINAL IMPACT ASSESSMENT

This section shall be completed upon receipt of the impact assessment forms and at the conclusion of the consultation process prior to filing of reliability standards with the Régie de l'énergie.