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## Project QC-2026-04

### Modifications to PRC-002 – Phase II

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#### 1. OVERVIEW

##### 1.1. Applicability

The Reliability Standards proposed for adoption (PRC-024-4 and PRC-029-1) are indicated below:

Standard	Functions covered
PRC-024-4	<i>Reliability Coordinator (RC)</i> <i>Transmission Owner (TO)</i> <i>Generator Owner (GO)</i>
PRC-029-1	<i>Generator Owner (GO)</i>

The Reliability Coordinator for Quebec (hereinafter, the “Coordinator”) highlights the addition of frequency and voltage protection settings for synchronous generators, Type 1 and 2 wind resources, and synchronous compensators to the PRC-024-4 standard. Furthermore, the Coordinator also introduces the concept of frequency and voltage “Ride-through” requirement of Inverter-Based Resource (“IBR”) in the new PRC-030-1 standard.

The changes to the Glossary of Terms and Acronyms Related to Reliability Standards (hereinafter, the “Glossary”) are consistent with the NERC Glossary currently in effect.

##### 1.2. Purpose of the standard

This section presents the purpose of each standard covered by this request. The title and purpose of each standard are presented below.

- **PRC-024-4 – Frequency and Voltage Protection Settings for Synchronous Generators, Type 1 and Type 2 Wind Resources, and Synchronous Condensers:** To assure that protection of synchronous generators, type 1 and type 2 wind resources, and synchronous condensers do not cause tripping during defined frequency and voltage excursions in support of the Bulk Power System (BPS).
- **PRC-029-1 – Frequency and Voltage Ride-through Requirements for Inverter-based Resources:** To ensure that IBRs Ride-through to support the Bulk Power System (BPS) during and after defined frequency and voltage excursions.

##### 1.3. Regulatory context

The Federal Energy Regulatory Commission (FERC) Order 901<sup>1</sup>, issued on October 19, 2023, includes numerous directives requiring the North American Electric Reliability Corporation (NERC) to develop new or revised Reliability Standards to address reliability risks associated with IBRs.

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<sup>1</sup> The full scope of FERC Order 901 can be found at: [https://elibrary.ferc.gov/eLibrary/filelist?accession\\_number=20231019-3157](https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20231019-3157)

The FERC Order 901 comprises of four (4) successive milestones, each with specific directives to the NERC. The first Milestone required the submission of a complete work plan, which was submitted on January 17, 2024. Milestone 2, on which projects 2020-02, 2021-04, and 2023-02 are based, required the NERC to develop, finalize, and submit regulatory standards that meet the performance, data sharing, and post-event validation requirements for IBRs. These standards were filed on November 4, 2024. Milestones 3 and 4 relate to the development of additional standards related to model validation, planning studies and operational requirements, with filings planned for 2025 and 2026 respectively. The Coordinator will refer again to the FERC Order 901 in future matters<sup>2</sup>.

Several NERC standards projects were developed concurrently, including the projects of Milestone 2, and are described in more detail in subsections 1.3.i and 1.3.ii below. Briefly, Project 2021-04, stemming from FERC Docket No. RD25-2-000<sup>3</sup>, addressed FERC's directive to share disturbance data to improve the monitoring and analysis of events involving IBRs. Finally, Project 2023-02 directed from FERC Docket No. RD25-3-000<sup>4</sup> approving a new Reliability Standard, PRC-030-1, requires the implementation of post-event validation processes to verify the conformity of IBR models to the actual performance observed during disturbances. Finally, Project 2020-02 concerns the establishment of performance standards for IBRs, particularly in terms of frequency and voltage Ride-through requirements and a revision of the frequency and voltage protection settings to include synchronous groups, type 1 and 2 wind resources and synchronous compensators.

**i. NERC Project 2021-04 – Modifications to PRC-002 – Phase II and NERC Project 2023-02 – Analysis and Mitigation of BES Inverter-Based Resource Performance Issues**

Prior to the filing of standards PRC-024-4 and PRC-029-1, Project 2021-04<sup>5</sup> was required to define the terms of GO, GOP, and IBR. To this end, the Docket no. R-4134-2025<sup>6</sup> from the Régie de l'énergie (hereinafter, the "Régie") addressed the adoption of the Glossary, including the addition of these definitions. This adoption was endorsed by the Régie in its decision D-2026-010<sup>7</sup>, which also approved standards PRC-002-5 and PRC-028-1 stemming from Project 2021-04.

As mentioned previously, Project 2023-02<sup>8</sup> (Analysis and Mitigation of BES Inverter-Based Resource Performance Issues) specifically aims to analyze and mitigate the performance issues of IBRs on the BES. The project introduces a new Reliability Standard, PRC-030-1.

Therefore, Project 2020-02 is a prerequisite for project 2023-02 (Analysis and Mitigation of BES Inverter-Based Resource Performance Issues) since it formally introduces the defined term of in-service maintenance, which is addressed in the Reliability Standard PRC-030-1<sup>9</sup>.

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<sup>2</sup> NERC Reliability Standards under development in connection with Order No. 901, retrieved on April 27, 2026 from : [Standards Development Mapping of FERC Order 901 Directives and Other Guidance to Standards Development Projects, Draft SARs, and Pending SARs](#)

<sup>3</sup> FERC Docket No. RD25-2-000, retrieved on April 27, 2026 from: [https://elibrary.ferc.gov/eLibrary/filelist?accession\\_num=20250220-3027](https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20250220-3027)

<sup>4</sup> FERC Docket No RD25-3-000,, retrieved on April 27, 2026 from: [https://elibrary.ferc.gov/eLibrary/filelist?accession\\_num=20250220-3027](https://elibrary.ferc.gov/eLibrary/filelist?accession_num=20250220-3027)

<sup>5</sup> The full scope of NERC Project 2021-04 can be found at: <https://www.nerc.com/standards/reliability-standards-under-development/2021-04-modifications-to-prc-002---phase-ii>

<sup>6</sup> Docket No. R-4134-2025 from the Régie de l'énergie, retrieved on April 27, 2026 from: <https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4314-2025>

<sup>7</sup> Decision D-2026-010, Docket No. R-4314-2025 from the Régie de l'énergie, retrieved on April 27, 2026 from: [https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4314-2025/doc/R-4314-2025-A-0009-Dec-Dec-2026\\_02\\_10.pdf](https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4314-2025/doc/R-4314-2025-A-0009-Dec-Dec-2026_02_10.pdf)

<sup>8</sup> The full scope of NERC Project 2023-02 can be found at : [2023-02 Analysis and Mitigation of BES Inverter-Based Resource Performance Issues](#)

<sup>9</sup> Reliability Standard PRC-030-1 by the NERC, retrieved on April 27, 2026 from: [2023-02\\_prc-030-1\\_unexpected\\_inverter-based\\_resource\\_event\\_mitigation\\_clean\\_final\\_092324.pdf](#)

## ii. NERC Project 2020-02 – Modifications to PRC-024 (Generator Ride-through)

Pursuant to Section 85.6 of the *Act Respecting the Régie de l'énergie* (the "Act"), the Coordinator submits for adoption by the Régie de l'énergie (the "Régie") Reliability Standards PRC-024-4 and PRC-029-1 of Project 2020-02<sup>10</sup> (*Project 2020-02 Modifications to PRC-024 Generator Ride-through*) of the North American Electric Reliability Corporation ("NERC").

As stated previously, the aim of the NERC Project 2020-02 is to precisely respond to the directives of Ordinance 901 by adapting the PRC-024 standard to integrate frequency and voltage protection settings for synchronous units, wind resources of type 1 and 2 and synchronous compensators and by introducing a new Reliability Standard PRC-029-1 to include frequency and voltage Ride-through performance requirements for IBRs.

Project 2020-02 aims to address the needs identified in the Standard Authorization Request (SAR<sup>11</sup>) submitted by NERC regarding the operation of IBRs. Consequently, the currently applicable standard, PRC-024-3<sup>12</sup>, has been amended to include synchronous generators and compensators, as well as Type 1 and 2 wind resources, among the already regulated generation resources. An additional Reliability Standard, PRC-029-1, is confirmed as required to specify the Ride-through performance requirements for IBRs, defining the frequency and voltage parameters of these installations during and following a disturbance. This new standard therefore provides verifiable performance criteria for in-service operation.

The definition of the term "Ride-through" and the Reliability Standards PRC-024-4 and PRC-029-1 were adopted by the NERC Board of Directors on October 8, 2024 and approved by the FERC on July 24, 2024 under Order 909<sup>13</sup>

## iii. Reliability Standards covered in Quebec

Reliability Standard PRC-024-4 replaces Reliability Standard PRC-024-3, adopted by the Régie in Decision D-2021-168<sup>14</sup> and in effect in Quebec since July 1, 2025.

### 1.4. Specific provisions for Québec

For standard PRC-024-4, the Coordinator proposes to retain the Quebec-specific features, including the scope and special provisions of the previous version of the Reliability Standard, namely standard PRC-024-3, already adopted by the Régie in decision D-2021-168, while respecting paragraph 285 of decision D-2024-060<sup>15</sup> concerning the inclusion of this wording and placement in any future Reliability Standard affected by this provision. Consequently, the Coordinator proposes the following special provisions in the "Applicability" section.

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<sup>10</sup> The full scope of NERC Project 2020-02 can be found at: [2020-02 Modifications to PRC-024 \(Generator Ride-through\)](https://www.nerc.com/globalassets/standards/projects/2020-02/2020-02_tcr_sar_03302020.pdf)

<sup>11</sup> Standard Authorization Request (SAR) of the NERC Project 2020-02, retrieved on April 27, 2026 from: [https://www.nerc.com/globalassets/standards/projects/2020-02/2020-02\\_tcr\\_sar\\_03302020.pdf](https://www.nerc.com/globalassets/standards/projects/2020-02/2020-02_tcr_sar_03302020.pdf)

<sup>12</sup> Reliability Standard PRC-024-3 currently in effect, retrieved on April 27, 2026 from: [https://www.regie-energie.qc.ca/storage/app/media/entites-visees-normes-de-fiabilite/normes-de-fiabilite/PRC-024-3\\_FR\\_20220330.pdf](https://www.regie-energie.qc.ca/storage/app/media/entites-visees-normes-de-fiabilite/normes-de-fiabilite/PRC-024-3_FR_20220330.pdf)

<sup>13</sup> The full scope of FERC Order 909 can be found at: [https://elibrary.ferc.gov/eLibrary/filelist?accession\\_number=20250724-3084&optimized=false&sid=c6b2790f-4973-4937-b848-8df3edc518ed](https://elibrary.ferc.gov/eLibrary/filelist?accession_number=20250724-3084&optimized=false&sid=c6b2790f-4973-4937-b848-8df3edc518ed)

<sup>14</sup> Decision D-2021-168, Docket No. R-4015-2017 from the Régie de l'énergie, retrieved on April 27, 2026 from: [D-2021-168 \(R-4015-2017\)](https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4229-2023/doc/R-4229-2023-A-0020-Dec-Dec-2024_06_20.pdf)

<sup>15</sup> Decision D-2024-060, Docket No. R-4229-2024 from the Régie de l'énergie, retrieved on April 27, 2026 from: [https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4229-2023/doc/R-4229-2023-A-0020-Dec-Dec-2024\\_06\\_20.pdf](https://www.regie-energie.qc.ca/fr/participants/dossiers/R-4229-2023/doc/R-4229-2023-A-0020-Dec-Dec-2024_06_20.pdf)

For PRC-024-4 and PRC-029-1, the Coordinator proposes the following specific provision under Applicability:

“ When applying this standard, any reference to the terms Bulk Electric System or BES shall be replaced by the terms Main Transmission System or RTP, respectively.”

Lastly, a Quebec-specific provision was added to Section 4.2.2 of the appendix of standards PRC-024-4 and PRC-029-1 to adapt the criteria for Reliability Standard applicability for Québec in accordance with Section 85.38<sup>16</sup> of the Act respecting the Régie de l'énergie to non-RTP IBRs.

### 1.5. Proposed effective dates

In the United States, standards PRC-024-4 and PRC-029-1 will take effect on the same day, October 1, 2026<sup>17</sup>. In Quebec, as per the project 2020-02 implementation plan, the Coordinator proposes that Reliability Standards PRC-024-4 and PRC-029-1 take effect on the first day of the first calendar quarter 12 months after the regulatory approval date<sup>18</sup>.

In Quebec, for the PRC-024-4 Reliability Standard, a phased implementation was evaluated, based on the previous version of the appendix to the PRC-024-3<sup>19</sup> standard. The Coordinator therefore proposes implementation timelines adapted to requirements R1 to R3 and requirement D.A.2, which are detailed in greater detail in the appendix of the PRC-024-4 standard. Concurrently, the Coordinator proposes an implementation timeline for the R1 to R3 requirements of the PRC-029-1 Reliability Standard related to the design of monitoring equipment (both RTP and non-RTP), with an additional period of up to three (3) months<sup>20</sup> for non-RTP monitoring equipment. For operational purposes, all monitoring equipment must comply with requirements R1 to R3 during the installation of monitoring equipment. Finally, requirement R4 must be met by all IBRs no later than the effective date of standard PRC-029-1 with an additional period of up to 3 months for IBRs non-RTP.

The Coordinator considers that NERC's implementation plan meets the Régie's requirement that standards come into force on the first day of a calendar quarter<sup>21</sup> with at least 60 days<sup>22</sup> between the date of the standard's adoption and its effective date.

Given the importance of having standardized practices, with effective mandatory standards harmonized with the United States, the Coordinator proposes that the two Reliability Standards come into effect on the first day of the first calendar quarter after their adoption by the Régie.

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<sup>16</sup> Section 85.3 of the Act respecting the Régie de l'énergie, retrieved on April 27, 2026 from:

<https://www.legisquebec.gouv.qc.ca/fr/document/lc/R-6.01>

<sup>17</sup> Standards subject to future enforcement on the NERC site, retrieved on April 27, 2026 from:

<https://www.nerc.com/pa/Stand/Pages/USRelStand.aspx>

<sup>18</sup> Implementation plan of the NERC Project 2020-02, retrieved on April 27, 2026 from :

[https://www.nerc.com/globalassets/standards/reliability-standards/prc/2020-02\\_prc-024-4\\_prc-029-1\\_implementation\\_plan\\_final.pdf](https://www.nerc.com/globalassets/standards/reliability-standards/prc/2020-02_prc-024-4_prc-029-1_implementation_plan_final.pdf)

<sup>19</sup> Appendix of the standard PRC-024-3 currently in effect, retrieved on April 27, 2026 from: [https://www.regie-energie.qc.ca/storage/app/media/entites-visees-normes-de-fiabilite/normes-de-fiabilite/PRC-024-3\\_FR\\_20220330.pdf](https://www.regie-energie.qc.ca/storage/app/media/entites-visees-normes-de-fiabilite/normes-de-fiabilite/PRC-024-3_FR_20220330.pdf)

<sup>20</sup> Implementation plan of the NERC Project 2020-02, indicating a compliance date for non-RTP IBRs on January 1, 2027, 3 months following October 1, 2027 (p.5/5). Document retrieved on April 27, 2026 from: [https://www.nerc.com/globalassets/standards/reliability-standards/prc/2020-02\\_prc-024-4\\_prc-029-1\\_implementation\\_plan\\_final.pdf](https://www.nerc.com/globalassets/standards/reliability-standards/prc/2020-02_prc-024-4_prc-029-1_implementation_plan_final.pdf)

<sup>21</sup> In Decision D-2015-168, the Régie set the effective date of standards as the first day of the calendar quarters following the date of adoption.

<sup>22</sup> In Decision D-2016-011, the Régie set a minimum of 60 days between the adoption of standards and their effective date.

In addition, project 2023-02 will introduce post-disturbance analysis of IBRs through the new Reliability Standard PRC-030-1. Finally, the third milestone of Order 901 will ensure the availability and sharing of performance data, essential for model validation and studies by planners and operators.

### 1.6. Standard to retire

Reliability Standard PRC-024-3 must be retired as soon as PRC-024-4 takes effect.

### 1.7. Modifications to the Glossary

NERC Project 2020-02 proposes a new definition, “Ride-through”, in connection with PRC-024-4 and PRC-029-1.

Term	Acronym	Definition
Ride-through	N/A	<p><b>New definition effective month xx, 20xx (the first day of the first calendar quarter twelve (12) months after Régie date of approval of the standard in the present filing)</b></p> <p>The plant/facility remains connected and continues to operate through voltage or frequency system disturbances.</p> <p><b>(Ride-through)</b></p> <p>Source: Glossary of Terms Used in NERC Reliability Standards</p>

The Coordinator proposes that the Glossary modifications come into effect the first day of the first calendar quarter twelve (12) months after the Régie’s date of approval of the standard in the present filing.

### 1.8. Modifications to the Register

The Coordinator presents no modification to the Register in this application.

## 2. ASSESSMENT OF RELEVANCE

FERC Order 901 further emphasized the need for a comprehensive set of Reliability Standards requirements covering all aspects of IBRs performance, operation, and planning, including disturbance monitoring. Project 2020-02 directly addresses this concern by clarifying IBRs performance expectations while ensuring consistency with existing requirements for synchronous resources.

NERC’s practical experience has demonstrated that the existing requirements of PRC-024 alone are insufficient to ensure adequate SERMO performance during major grid disturbances, particularly with respect to their ability to remain operational during frequency and voltage deviations. In the United States, several large-scale disturbance events have highlighted simultaneous losses with unharmonized control or protection behaviors, thus contributing to a degradation of BES reliability (notably the Blue Cut<sup>23</sup> and Canyon 2 fires<sup>24</sup>, as well as the disturbances in Odessa<sup>25</sup>) and demonstrated that some existing Reliability

<sup>23</sup>NERC Report of Blue Cut Fire, retrieved on April 27, 2026 from:

[https://www.nerc.com/pa/rrm/ea/Documents/1200\\_MW\\_Fault\\_Induced\\_Solar\\_Photovoltaic\\_Resource\\_Interruption\\_Final.pdf#search=1%2C200%20MW%20Fault%20Induced%20Solar](https://www.nerc.com/pa/rrm/ea/Documents/1200_MW_Fault_Induced_Solar_Photovoltaic_Resource_Interruption_Final.pdf#search=1%2C200%20MW%20Fault%20Induced%20Solar)

<sup>24</sup> NERC Report of Canyon 2 Fire, retrieved on April 27, 2026 from:

<https://www.nerc.com/pa/rrm/ea/Documents/900%20MW%20Solar%20Photovoltaic%20Resource%20Interruption%20Disturbance%20Report.pdf#search=canyon%20fire>

<sup>25</sup> NERC Report of Odessa Disturbance, retrieved on April 27, 2026 from:

[https://www.nerc.com/pa/rrm/ea/Documents/Odessa\\_Disturbance\\_Report.pdf#search=odessa](https://www.nerc.com/pa/rrm/ea/Documents/Odessa_Disturbance_Report.pdf#search=odessa)

Standards, such as PRC-002-4, PRC-024-4 and MOD-032-1<sup>26</sup>, had to be adjusted to take into account the specific requirements of IBRs.

Project 2020-02 aims to address this reliability gap by updating the PRC-024-4 standard and introducing the new PRC-029-1 standard, which establishes explicit Ride-through performance requirements applicable to IBRs. Unlike protection settings, the objective of PRC-029-1 is to define measurable and verifiable performance criteria under real operating conditions, enabling the evaluation of the behavior of IBRs during and after frequency and voltage disturbances. The PRC-024 was initially developed to establish frequency and voltage protection setting requirements for synchronous resources. This approach was appropriate given the composition of the generation fleet at the time of its adoption. However, the electricity generation and transmission system (EGTS) has undergone rapid evolution in recent years, marked by the increasing integration of synchronous power generation (SMG), which have fundamentally different performance characteristics from synchronous resources.

In Quebec, the context is similar, and these standards aim to bridge reliability gaps comparable to those in the United States. The relevance of standards PRC-024-4 and PRC-029-1 in Quebec therefore improves the reliability of the transmission system and ensures convergence between Quebec's regulatory framework and that imposed on American entities. The concept of "Ride-through", as proposed by the NERC and intended to be included in the Glossary, is defined as the ability of a generating station or facility to remain connected to the grid and continue operating during voltage or frequency disturbances. Its definition and application to Reliability Standards are aligned with the fundamental objectives of transmission system reliability.

The revision of standard PRC-024-4, which removes functional requirements specific to generation resources to focus on requirements based on the capabilities of synchronous generators, Type 1 and 2 wind resources, and synchronous compensators, is consistent with the reality of the Quebec's Main Transmission System (RTP). This system remains primarily composed of synchronous generators, for which voltage and frequency protection settings are the main lever for compliance. In the revised standard, maintaining ranges compatible with maintaining the service of installations therefore corresponds to a well-established operational need in Quebec.

In addition, the new standard PRC-029-1, which introduces voltage and frequency Ride-through performance requirements, addresses an evolution in the type of generation observed in Quebec, notably with the gradual integration of synchronous generators, as well as photovoltaic and storage resources. Thus, the clear allocation of requirements between PRC 024-4 for generalizing installations and PRC-029-1 for establishing Ride-through requirements in voltage and frequency for IBRs creates a structured, technologically coherent framework applicable to the Quebec context. This approach promotes harmonization with North American practices while considering the specific characteristics of Quebec's grid and generation, thereby supporting grid reliability objectives.

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<sup>26</sup> Reliability Standard MOD-032-1 by the NERC, retrieved on April 27, 2026 from: <https://www.nerc.com/globalassets/standards/reliability-standards/mod/mod-032-1.pdf>

All information on NERC's rationale for the proposed standards can be found in the 2020-02 project documentation or, more specifically, in the technical justifications<sup>27,28</sup> of the standards.

NERC is of the opinion that the new definition of “Ride-through” and the amendments to PRC-024-4 and PRC-029-1 for adoption are reasonable, non-discriminatory, do not provide an undue advantage, and are in the public interest. The FERC approves the rationale presented by the NERC in its submission to Order 909.

Furthermore, the New Brunswick Energy and Utilities Board approved standards PRC-024-4-NB-0 and PRC-029-1-NB-0 on December 5, 2025, in Project No. ER-005-2025<sup>29</sup>. In Ontario, the project was adopted on December 3, 2024, by the Ontario Energy Board<sup>30</sup>.

Considering the elements mentioned above concerning the PRC-024-4 and PRC-029-1 standards and considering that these standards were developed by recognized organizations in North America, including in Quebec and neighbouring jurisdictions, in accordance with the agreement concluded in 2009 between the Régie, the NERC and the NPCC with the authorization of the Government of Quebec<sup>31</sup>, the Coordinator is of the opinion that the PRC-024-4 and PRC-029-1 standards contribute to the reliability of the Quebec network and to harmonization with neighbouring networks.

### 3. PRELIMINARY IMPACT ASSESSMENT

This section presents the Coordinator's preliminary assessment of the impact on all entities in Quebec.

As part of file R-4314-2025, which updates the Reliability Standard PRC-002-4 and implements the new standard PRC-028-1, the Registry has already been updated to include the new Category 2 GO and GOP entities. The Coordinator believes that the affected entities, whose addresses are already listed in the Registry, should be familiar with the Reliability Standards. Consequently, the Coordinator anticipates a minimal impact on these affected entities.

The implementation of PRC-024-4 is assessed as having a low impact, since this standard essentially updates and refocuses requirements already well integrated into existing practices for synchronous generators, synchronous compensators, and Type 1 and 2 wind resources. The proposed changes do not entail major new technical obligations, but rather adjustments in scope and clarification. Conversely, the implementation of PRC-029-1 has a moderate impact, as it introduces explicit voltage and frequency Ride-through performance requirements applicable IBRs. This new standard may require additional technical analyses, design validations, and/or adjustments to control and protection systems for some existing installations or for projects under development.

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<sup>27</sup> Technical Rationale for Reliability Standard PRC-024-4 of NERC Project 2020-02, retrieved on April 27, 2026 from : [PRC-024-4 Technical Rationale](#)

<sup>28</sup> Technical Rationale for Reliability Standard PRC-029-1 of NERC Project 2020-02, retrieved on April 27, 2026 from: [PRC-029-1 Technical Rationale](#)

<sup>29</sup> New Brunswick Matter No. ER-005-2025, retrieved on April 27, 2026 from: <https://filemaker.nbeub.ca/fmi/webd/NBEUB%20ToolKit13>

<sup>30</sup> Ontario Energy Board (OEB) Review Process, retrieved on April 27, 2026 from: <https://www.ieso.ca/en/Sector-Participants/System-Reliability/OEB-Review-Process>

<sup>31</sup> Agreement entered into pursuant to Decree No. 443-2009 issued April 8, 2009, at [https://www.regie-energie.qc.ca/fr/participants/dossiers/R-3996-2016/doc/R-3996-2016-B-0106-Audi-Piece-2018\\_10\\_26.pdf](https://www.regie-energie.qc.ca/fr/participants/dossiers/R-3996-2016/doc/R-3996-2016-B-0106-Audi-Piece-2018_10_26.pdf)

Similarly, maintaining PRC-024-4 is assessed to be of low impact, since the protection requirements applicable to synchronous resources are based on relatively stable protection parameters already integrated into current operational processes. Along the same lines, maintaining compliance with PRC-029-1 is also estimated as low impact once the standard is in effect. After initial compliance, IBRs designed to meet mandatory service maintenance zones should remain compliant and should not require significant modifications.

The impact of monitoring compliance with PRC-024-4 is considered low, as it relies primarily on existing activities such as document management, verification of protection settings, and periodic audits. Similarly, monitoring PRC-029-1 is low impact, since demonstrating compliance relies mainly on technical evidence established during the design, performance studies, and commissioning phases. Once this evidence is documented, regular monitoring is integrated into existing compliance mechanisms.

The following table provides preliminary assessments of the impacts on all Québec entities.

Standard	Impact		
	Implementation	Maintenance	Monitoring
PRC-024-4	Low	Low	Low
PRC-029-1	Medium	Low	Low

#### Key

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

**Medium:** Change that requires the mobilization of some physical, human or financial resources to implement the proposed standard, enforce it or monitor compliance.

**High:** Change that requires provision and mobilization of significant physical, human or financial resources to plan and implement the proposed standard, enforce it or monitor compliance.

#### 4. FINAL IMPACT ASSESSMENT

This section will be completed upon receipt of the impact assessment forms and at the conclusion of the consultation process prior to filing of the standards with the Régie.