

Coordonnateur de la fiabilité

Glossaire des termes et acronymes relatifs aux normes de fiabilité en suivi de modifications en suivi de la décision D-2022-146 (version anglaise)



Coordonnateur de la fiabilité

Demande R-4179-2021



Reliability Coordinator in Québec

# Glossary of Terms and Acronyms used in Reliability Standards

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### 1. INTRODUCTION

This glossary presents, in alphabetical order, the definition of terms and acronyms used in the Reliability Standards and in the documents produced by the Reliability Coordinator in Québec in relation with Reliability Standards. Most terms come from the NERC Glossary of Terms Used in Reliability Standards, April 20, 2009, adopted by NERC Board of Trustees.

#### 1.1 DEFINED TERMS

Terms in the definitions as well as in the Reliability Standards and in Appendices for Québec, that refer to terms defined in this glossary are capitalized in the English version and italicized in the French version. Acronyms of defined terms in the current Glossary are capitalized in the English version, and italicized and capitalized in the French version of the Reliability Standards and their Appendices.

#### 1.2 TERMS IN FRENCH

French translation of terms is shown within parentheses at the end of each definition. In addition, all acronyms and terms in French are identified by the use of bold characters. An index of terms and acronyms in French is presented in Section 3 to facilitate the search within the document.

Term	Acronym	Definition
Actual Frequency	FA	Effective on July 1, 2021: The Interconnection frequency measured in Hertz (Hz). (Fréquence réelle) Source : Glossary of Terms Used in NERC Reliability Standards
Actual Net Interchange	NIA	Effective on July 1, 2021: The algebraic sum of actual megawatt transfers across all Tie Lines, including Pseudo-Ties, to and from all Adjacent Balancing Authority areas within the same Interconnection. Actual megawatt transfers on asynchronous DC tie lines that are directly connected to another Interconnection are excluded from Actual Net Interchange. (Échange net réel)
Adequate Level of Reliability	ALR	Source : Glossary of Terms Used in NERC Reliability Standards ALR is the state that the design, planning, and operation of the Bulk Electric System (BES) will achieve when the listed Reliability Performance Objectives are met. Further, Reliability Assessment Objectives included in the definition must be evaluated to assess reliability risk in support of an adequate level of reliability.

## 2. DEFINITIONS AND ACRONYMS



Term	Acronym	Definition
		ALR Performance Objectives
		<ol> <li>The BES does not experience instability, uncontrolled separation, Cascading, or voltage collapse under normal operating conditions and when subject to predefined Disturbances.</li> <li>BES frequency is maintained within defined parameters under normal operating conditions and when subject to predefined Disturbances.</li> <li>BES voltage is maintained within defined parameters under normal operating conditions and when subject to predefined Disturbances.</li> <li>Adverse Reliability Impacts on the BES following low probability Disturbances (e.g., multiple contingences, unplanned and uncontrolled equipment outages, cyber security events, and malicious acts) are managed.</li> <li>Restoration of the BES after major system Disturbances that result in blackouts and widespread outages of BES elements is performed in a coordinated and controlled manner.</li> </ol>
		ALR Assessment Objectives
		"Adequate level of reliability" is a term used in Section 215 (c)(1) of the Federal Power Act, specifying what standards the electric reliability organization (ERO) can develop and enforce. Section 215 specifically does not authorize the ERO to develop standards related to adequacy and safety. However, this definition of ALR is meant to encompass all the duties of the ERO, including obligations to perform assessments of resource and Transmission adequacy.
		A target to achieve adequate Transmission transfer capability and resource capability to meet forecast demand is an inherent, fundamental objective for planning, designing, and operating the BES. The Assessment Objectives do not suggest that NERC Reliability Standards mandate that such additions be developed; they are not directly related to NERC's standards development and enforcement activities.
		1. BES Transmission capability is assessed to determine availability to meet anticipated BES demands during normal operating conditions and when subject to predefined



Term	Acronym	Definition
		Disturbances.
		<ul> <li>2. Resource capability is assessed to determine availability to the BES to meet anticipated BES demands during normal operating conditions and when subject to predefined Disturbances.</li> <li>(Niveau de fiabilité adéquat ) ou</li> <li>(Niveau de fiabilité recherché )</li> <li>Source : NERC Adequate Level of Reliability Definition (Informational Filing to FERC)</li> </ul>
Adequate Level of Reliability for the Québec Interconnection		Refer to "Adequate Level of Reliability". (Niveau de fiabilité adéquat pour l'Interconnexion du Québec ) ou (Niveau de fiabilité recherché pour l'Interconnexion du Québec )
		Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Adequacy		The ability of the electric system to supply the aggregate electrical demand and energy requirements of the end-use customers at all times, taking into account scheduled and reasonably expected unscheduled outages of system elements. (Adéquation) Source : Glossary of Terms Used in NERC Reliability Standards
Adjacent Balancing Authority		A Balancing Authority whose Balancing Authority Area is interconnected with another Balancing Authority Area either directly or via a multi-party agreement or transmission tariff. (Responsable de l'équilibrage adjacent) Source : Glossary of Terms Used in NERC Reliability Standards
Adverse Reliability Impact		The impact of an event that results in frequency-related instability; unplanned tripping of load or generation; or uncontrolled separation or cascading outages that affects a widespread area of the Interconnection. (Impact négatif sur la fiabilité) Source : Glossary of Terms Used in NERC Reliability Standards
After the Fact	ATF	A time classification assigned to an RFI when the submittal time is greater than one hour after the start time of the RFI. (Après le fait) Source : Glossary of Terms Used in NERC Reliability Standards
Agreement		A contract or arrangement, either written or verbal and sometimes enforceable by law. (Entente) Source : Glossary of Terms Used in NERC Reliability Standards
Alternative Interpersonal Communication		Any Interpersonal Communication that is able to serve as a substitute for, and does not utilize the same infrastructure (medium) as, Interpersonal Communication used for day-to-day operation. (Communication interpersonnelle de rechange)



Term	Acronym	Definition
		Source: Glossary of terms used in NERC Reliability Standards
Altitude Correction		A multiplier applied to specify distances, which adjusts the
Factor		distances to account for the change in relative air density (RAD)
		due to altitude from the RAD used to determine the specified
		distance. Altitude correction factors apply to both minimum
		worker approach distances and to minimum vegetation clearance
		distances.
		(Facteur de correction en fonction de l'altitude)
		Source : Glossary of Terms Used in NERC Reliability Standards
Ancillary Service		Those services that are necessary to support the transmission of
		capacity and energy from resources to loads while maintaining
		reliable operation of the Transmission Service Provider's
		transmission system in accordance with good utility practice.
		(From FERC order 888-A.)
		(Services complémentaires)
		Source : Glossary of Terms Used in NERC Reliability Standards
Anti-Aliasing Filter		An analog filter installed at a metering point to remove the high
		frequency components of the signal over the AGC sample
		period.
		(Filtre antirepliement)
		Source : Glossary of Terms Used in NERC Reliability Standards
Area Control Error	ACE	The instantaneous difference between a Balancing Authority's
		net actual and scheduled interchange, taking into account the
		effects of Frequency Bias and correction for meter error.
		(Écart de réglage de la zone)
Area Interchange		Source : Glossary of Terms Used in NERC Reliability Standards
Area Interchange Methodology		The Area Interchange methodology is characterized by
wethodology		determination of incremental transfer capability via simulation,
		from which Total Transfer Capability (TTC) can be
		mathematically derived. Capacity Benefit Margin, Transmission Reliability Margin, and Existing Transmission Commitments are
		subtracted from the TTC, and Postbacks and counterflows are
		added, to derive Available Transfer Capability. Under the Area
		Interchange Methodology, TTC results are generally reported on an area to area basis.
		(Méthodologie selon les échanges entre zones)
		Source : Glossary of Terms Used in NERC Reliability Standards
Arranged Interchange	-	The state where a Request for Interchange (initial or revised) has
, mangea moronange		been submitted for approval.
		(Échange convenu)
		Source : Glossary of Terms Used in NERC Reliability Standards
Attaining Balancing		A Balancing Authority bringing generation or load into its
Authority		effective control boundaries through a Dynamic Transfer from the
-		



Term	Acronym	Definition
		Native Balancing Authority. (Responsable de l'équilibrage délégataire) Source: Glossary of Terms Used in NERC Reliability Standards
Automatic Generation Control	AGC	<b>Effective until June 30, 2021:</b> Equipment that automatically adjusts generation in a Balancing Authority Area from a central location to maintain the Balancing Authority's interchange schedule plus Frequency Bias. AGC may also accommodate automatic inadvertent payback and time error correction.
		<b>Effective on July 1, 2021 :</b> A process designed and used to adjust a Balancing Authority Areas' Demand and resources to help maintain the Reporting ACE in that of a Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.
		(Réglage automatique de la production)
		Source : Glossary of Terms Used in NERC Reliability Standards
Automatic Time Error Correction	ΙΑΤΕΟ	Effective on July 1, 2021: The addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection. $I_{ATEC} = \frac{\Pr I_{accum}^{on/off peak}}{(1-Y) \times H}$ when operating in Automatic Time error correction Mode. The absolute value of I <sub>ATEC</sub> shall not exceed Lmax. IATEC shall be zero when operating in any other AGC mode. • Lmax is the maximum value allowed for I <sub>ATEC</sub> set by each BA between $0.2^* B_i $ and L10, $0.2^* B_i  \leq L_{max} \leq L10$ . • L <sub>10</sub> = $1.65 * \epsilon_{10} \sqrt{(-10B_i)(-10B_S)}$ .
		<ul> <li>ε10 is a constant derived from the targeted frequency bound. It is the targeted root-mean-square (RMS) value of ten-minute average frequency error based on frequency performance over a given year. The bound, ε 10, is the same for every Balancing Authority Area within an Interconnection.</li> <li>Y = Bi / BS.</li> <li>H = Number of hours used to payback primary inadvertent interchange energy. The value of H is set to 3.</li> <li>B<sub>i</sub> = Frequency Bias Setting for the Balancing Authority Area</li> </ul>



Term	Acronym	Definition
		<ul> <li>(MW / 0.1 Hz).</li> <li>Bs = Sum of the minimum Frequency Bias Settings for the Interconnection (MW / 0.1 Hz). Primary Inadvertent Interchange (PII<sub>hourly</sub>) is (1 - Y) * (II<sub>actual</sub> - Bi * ΔTE/6)</li> <li>II<sub>actual</sub> is the hourly Inadvertent Interchange for the last hour. ΔTE is the hourly change in system Time Error as distributed by the Interconnection time monitor, where: ΔTE = TE<sub>end hour</sub> - TE<sub>begin</sub> hour - TD<sub>adj</sub> - (t)*(TE<sub>offset</sub>)</li> <li>TD<sub>adj</sub> is the Reliability Coordinator adjustment for differences with Interconnection time monitor control center clocks.</li> <li>t is the number of minutes of manual Time Error Correction that occurred during the hour.</li> <li>TE<sub>offset</sub> is 0.000 or +0.020 or -0.020.</li> <li>PIIa<sub>ccum</sub> is the Balancing Authority Area's accumulated PII<sub>hourly</sub> in MWh. An On-Peak and OffPeak accumulation accounting is required, where:</li> <li>PII<sup>on/off peak</sup> =last period's PII<sup>on/off peak</sup> + PII<sub>hourly</sub></li> <li>(Correction de l'écart de temps automatique)</li> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> </ul>
Available Flowgate Capability	AFC	A measure of the flow capability remaining on a Flowgate for further commercial activity over and above already committed uses. It is defined as TFC less Existing Transmission
		Commitments (ETC), less a Capacity Benefit Margin, less a Transmission Reliability Margin, plus Postbacks, and plus counterflows. (Capacité disponible d'une interface de transit) (Capacité d'interface disponible) <sup>1</sup> Source : Glossary of Terms Used in NERC Reliability Standards
Available Transfer Capability	ATC	Commitments (ETC), less a Capacity Benefit Margin, less a Transmission Reliability Margin, plus Postbacks, and plus counterflows. (Capacité disponible d'une interface de transit) (Capacité d'interface disponible) <sup>1</sup>

<sup>&</sup>lt;sup>1</sup> Term used in the French version of the document « Tarifs et conditions des services de transport d'Hydro-Québec ».



Term	Acronym	Definition
Capability Implementation Document		for calculating ATC or AFC, and provides information related to a Transmission Service Provider's calculation of ATC or AFC. (Document de mise en oeuvre de la capacité de transfert disponible) Source : Glossary of Terms Used in NERC Reliability Standards
Balancing Authority	BA	Effective until June 30, 2021: The responsible entity that integrates resource plans ahead of time, maintains load-interchange-generation balance within a Balancing Authority Area, and supports Interconnection frequency in real time.
		<b>Effective on July 1, 2021:</b> The responsible entity that integrates resource plans ahead of time, maintains Demand and resource balance within a Balancing Authority Area, and supports Interconnection frequency in real time.
		(Responsable de l'équilibrage)
		Source : Glossary of Terms Used in NERC Reliability Standards
Balancing Authority Area		The collection of generation, transmission, and loads within the metered boundaries of the Balancing Authority. The Balancing Authority maintains load-resource balance within this area. (Zone d'équilibrage)
		Source : Glossary of Terms Used in NERC Reliability Standards
Balancing Contingency Event		<ul> <li>Effective on April 1, 2021:</li> <li>Any single event described in Subsections (A), (B), or (C) below, or any series of such otherwise single events, with each separated from the next by one minute or less.</li> <li>A. Sudden loss of generation: <ul> <li>a. Due to</li> <li>i. unit tripping, or</li> <li>ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity's System, or</li> <li>iii. sudden unplanned outage of transmission Facility;</li> <li>b. And, that causes an unexpected change to the responsible entity's ACE;</li> </ul> </li> </ul>
		<ul> <li>b. Evaluation restored an import, due to holded outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</li> <li>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the</li> </ul>



Term	Acronym	Definition
		responsible entity's ACE. (Contingence d'équilibrage )
		Source : Glossary of Terms Used in NERC Reliability Standards
Base Load		The minimum amount of electric power delivered or required over a given period at a constant rate. (Charge de base)
		Source : Glossary of Terms Used in NERC Reliability Standards
BES Cyber Asset		A Cyber Asset that if rendered unavailable, degraded, or misused would, within 15 minutes of its required operation, mis- operation, or non-operation, adversely impact one or more Facilities, systems, or equipment, which, if destroyed, degraded, or otherwise rendered unavailable when needed, would affect the reliable operation of the Bulk Electric System. Redundancy of affected Facilities, systems, and equipment shall not be considered when determining adverse impact. Each BES Cyber Asset is included in one or more BES Cyber Systems.) (Actif électronique BES) Source : Glossary of Terms Used in NERC Reliability Standards
BES Cyber System		One or more BES Cyber Assets logically grouped by a responsible entity to perform one or more reliability tasks for a functional entity. (Système électronique BES) Source : Glossary of Terms Used in NERC Reliability Standards
BES Cyber System Information		Information about the BES Cyber System that could be used to gain unauthorized access or pose a security threat to the BES Cyber System. BES Cyber System Information does not include individual pieces of information that by themselves do not pose a threat or could not be used to allow unauthorized access to BES Cyber Systems, such as, but not limited to, device names, individual IP addresses without context, ESP names, or policy statements. Examples of BES Cyber System Information may include, but are not limited to, security procedures or security information about BES Cyber Systems, Physical Access Control Systems, and Electronic Access Control or Monitoring Systems that is not publicly available and could be used to allow unauthorized access or unauthorized distribution; collections of network addresses; and network topology of the BES Cyber System. Information de système électronique BES) Source : Glossary of Terms Used in NERC Reliability Standards
Blackstart Resource		Effective until September 30, 2021: A generating unit(s) and its associated set of equipment which has the ability to be started without support from the System or is



Term	Acronym	Definition
		designed to remain energized without connection to the remainder of the System, with the ability to energize a bus, meeting the Transmission Operator's restoration plan needs for real and reactive power capability, frequency and voltage control, and that has been included in the Transmission Operator's restoration plan.
		<b>Effective on October 1, 2021:</b> A generating unit(s) and its associated set of equipment which has the ability to be started without support from the System or is designed to remain energized without connection to the remainder of the System, with the ability to energize a bus, meeting the Transmission Operator's restoration plan needs for Real and Reactive Power capability, frequency and voltage control, and that has been included in the Transmission Operator's restoration plan.
		(Ressource à démarrage autonome)
Block Dispatch	1	Source : Glossary of Terms Used in NERC Reliability Standards A set of dispatch rules such that given a specific amount of load to serve, an approximate generation dispatch can be determined. To accomplish this, the capacity of a given generator is segmented into loadable "blocks," each of which is grouped and ordered relative to other blocks (based on characteristics including, but not limited to, efficiency, run of river or fuel supply considerations, and/or "must-run" status). <b>(Répartition par blocs)</b>
Bulk Electric System	BES	Source : Glossary of Terms Used in NERC Reliability Standards Unless modified by the lists shown below, all Transmission Elements operated at 100 kV or higher and Real Power and Reactive Power resources connected at 100 kV or higher. This does not include facilities used in the local distribution of electric energy.
		Inclusions: • I1 – Transformers with the primary terminal and at least one secondary terminal operated at 100 kV or higher unless excluded by application of Exclusion E1 or E3.
		• I2 – Generating resource(s) including the generator terminals through the high-side of the step-up transformer(s) connected at a voltage of 100 kV or above with: a) Gross individual nameplate rating greater than 20 MVA. Or, b) Gross plant/facility aggregate nameplate rating greater than 75 MVA.



Term	Acronym	Definition
		<ul> <li>I3 – Blackstart Resources identified in the Transmission Operator's restoration plan.</li> </ul>
		<ul> <li>I4 – Dispersed power producing resources that aggregate to a total capacity greater than 75 MVA (gross nameplate rating), and that are connected through a system designed primarily for delivering such capacity to a common point of connection at a voltage of 100 kV or above. Thus, the facilities designated as BES are:</li> <li>a) The individual resources, and</li> <li>b) The system designed primarily for delivering capacity from the point</li> </ul>
		where those resources aggregate to greater than 75 MVA to a common point of connection at a voltage of 100 kV or above.
		<ul> <li>I5 –Static or dynamic devices (excluding generators) dedicated to supplying or absorbing Reactive Power that are connected at 100 kV or higher, or through a dedicated transformer with a high-side voltage of 100 kV or higher, or through a transformer that is designated in Inclusion I1 unless excluded by application of Exclusion E4.</li> </ul>
		<ul> <li>Exclusions:</li> <li>E1 – Radial systems: A group of contiguous transmission Elements that emanates from a single point of connection of 100 kV or higher and:</li> <li>a) Only serves Load. Or,</li> </ul>
		<ul> <li>b) Only includes generation resources, not identified in Inclusions I2, I3, or I4, with an aggregate capacity less than or equal to 75 MVA (gross nameplate rating). Or,</li> <li>c) Where the radial system serves Load and includes generation resources, not identified in Inclusions I2, I3 or I4, with an aggregate capacity of non-retail generation less than or equal to 75 MVA (gross nameplate rating).</li> </ul>
		Note 1 – A normally open switching device between radial systems, as depicted on prints or one-line diagrams for example, does not affect this exclusion.
		Note 2 – The presence of a contiguous loop, operated at a voltage level of 50 kV or less, between configurations being considered as radial systems, does not affect this exclusion.
		• <b>E2</b> – A generating unit or multiple generating units on the customer's side of the retail meter that serve all or part of the retail Load with electric energy if: (i) the net capacity provided to the BES does not exceed 75 MVA, and (ii) standby, back-up, and maintenance power services are provided to the generating unit or multiple generating units or to the retail Load by a Balancing Authority, or provided pursuant to a binding obligation with a Generator Owner or Generator Operator, or under terms approved by the applicable regulatory authority.



Term	Acronym	Definition
		• E3 – Local networks (LN): A group of contiguous transmission Elements operated at less than 300 kV that distribute power to Load rather than transfer bulk power across the interconnected system. LN's emanate from multiple points of connection at 100 kV or higher to improve the level of service to retail customers and not to accommodate bulk power transfer across the interconnected system. The LN is characterized by all of the following:
		a) Limits on connected generation: The LN and its underlying Elements do not include generation resources identified in Inclusions I2, I3, or I4 and do not have an aggregate capacity of non-retail generation greater than 75 MVA (gross nameplate rating);
		b) Real Power flows only into the LN and the LN does not transfer energy originating outside the LN for delivery through the LN; and
		c) Not part of a Flowgate or transfer path: The LN does not contain any part of a permanent Flowgate in the Eastern Interconnection, a major transfer path within the Western Interconnection, or a comparable monitored Facility in the ERCOT or Quebec Interconnections, and is not a monitored Facility included in an Interconnection Reliability Operating Limit (IROL).
		• <b>E4</b> – Reactive Power devices installed for the sole benefit of a retail customer(s).
		Note – Elements may be included or excluded on a case-by-case basis through the Rules of Procedure exception process.
		(Système de production-transport d'électricité)
Bulk Power System or Bulk-Power System <sup>2</sup> [NPCC]	BPS	Source : Glossary of Terms Used in NERC Reliability Standards The interconnected electrical systems within northeastern North America comprised of system elements on which faults or disturbances can have a significant adverse impact outside of the local area. (Réseau "Bulk") Source : Document A-07 (NPCC Glossary of Terms)
Bulk Power System	BPS	Definition used in the standards :
or		Bulk-Power System:
Bulk-Power System <sup>3</sup>		(A) facilities and control systems necessary for operating an interconnected electric energy transmission network (or any

<sup>&</sup>lt;sup>2</sup> Term and acronym used the Quebec Appendices.
<sup>3</sup> Term and acronym used the Reliability Standards.



Term	Acronym	Definition
[NERC]		portion thereof); and
		(B) electric energy from generation facilities needed to maintain transmission system reliability.
		The term does not include facilities used in the local distribution of electric energy. (Note that the terms "Bulk-Power System" or "Bulk Power System" shall have the same meaning.)
		(Système électrique interconnecté)
		Source : Glossary of Terms Used in NERC Reliability Standards
Burden		Operation of the Bulk Electric System that violates or is expected to violate a System Operating Limit or Interconnection Reliability Operating Limit in the Interconnection, or that violates any other NERC, Regional Reliability Organization, or local operating reliability standards or criteria. (Mettre à risque)
		Source : Glossary of Terms Used in NERC Reliability Standards
Bus-tie Breaker		A circuit breaker that is positioned to connect two individual substation bus configurations. (Disjoncteur d'attache)
		Source : Glossary of Terms Used in NERC Reliability Standards
Capacity Benefit Margin	СВМ	The amount of firm transmission transfer capability preserved by the transmission provider for Load-Serving Entities (LSEs),
		whose loads are located on that Transmission Service Provider's system, to enable access by the LSEs to generation from interconnected systems to meet generation reliability
		requirements. Preservation of CBM for an LSE allows that entity
		to reduce its installed generating capacity below that which may otherwise have been necessary without interconnections to meet
		its generation reliability requirements. The transmission transfer capability preserved as CBM is intended to be used by the LSE
		only in times of emergency generation deficiencies.
		(Marge de partage de capacité) (Marge bénéficiaire de capacité) <sup>4</sup>
Capacity Benefit Margin	CBMID	Source : Glossary of Terms Used in NERC Reliability Standards A document that describes the implementation of a Capacity
Implementation		Benefit Margin methodology.
Document		(Document de mise en œuvre de la marge de partage de capacité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Capacity Emergency		A capacity emergency exists when a Balancing Authority Area's operating capacity, plus firm purchases from other systems, to the extent available or limited by transfer capability, is

<sup>&</sup>lt;sup>4</sup> Term used in the French version of the document « Tarifs et conditions des services de transport d'Hydro-Québec ».



Term	Acronym	Definition
		inadequate to meet its demand plus its regulating requirements. (Défaillance en puissance)
		Source : Glossary of Terms Used in NERC Reliability Standards
Cascading		Effective until September 30, 2021:
		The uncontrolled successive loss of system elements triggered by an incident at any location. Cascading results in widespread electric service interruption that cannot be restrained from sequentially spreading beyond an area predetermined by studies.
		Effective on October 1, 2021:
		The uncontrolled successive loss of System Elements triggered by an incident at any location. Cascading results in widespread electric service interruption that cannot be restrained from sequentially spreading beyond an area predetermined by studies.
		(Déclenchements en cascade)
		Source : Glossary of Terms Used in NERC Reliability Standards
CIP Exceptional Circumstance		A situation that involves or threatens to involve one or more of the following, or similar, conditions that impact safety or BES reliability: a risk of injury or death; a natural disaster; civil unrest; an imminent or existing hardware, software, or equipment failure; a Cyber Security Incident requiring emergency assistance; a response by emergency services; the enactment of a mutual assistance agreement; or an impediment of large scale workforce availability. (Circonstance CIP exceptionnelle) Source : Glossary of Terms Used in NERC Reliability Standards
CIP Senior Manager		A single senior management official with overall authority and responsibility for leading and managing implementation of and continuing adherence to the requirements within the NERC CIP Standards, CIP-002 through CIP-011. (Cadre supérieur CIP) Source : Glossary of Terms Used in NERC Reliability Standards
Clock Hour		The 60-minute period ending at :00. All surveys, measurements, and reports are based on Clock Hour periods unless specifically noted. (Heure civile) Source : Glossary of Terms Used in NERC Reliability Standards
Cogeneration		Production of electricity from steam, heat, or other forms of energy produced as a by-product of another process. (Cogénération)



Term	Acronym	Definition
		Source : Glossary of Terms Used in NERC Reliability Standards
Compliance Monitor		The entity that monitors, reviews, and ensures compliance of
		responsible entities with reliability standards.
		(Responsable de la surveillance de la conformité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Compliance	CEA	Refers to the Régie de l'énergie in its roles of monitoring and
Enforcement Authority		enforcing compliance with respect to the Reliability Standard and
		to this appendix.
		(Responsable des mesures pour assurer la conformité, Responsable de la surveillance de l'application des normes de fiabilité )
		Source : Régie de l'énergie
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.
		(Échange confirmé composite )
		Source: Glossary of Terms Used in NERC Reliability Standards
Composite Protection		The total complement of Protection System(s) that function
System		collectively to protect an Element. Backup protection provided by
		a different Element's Protection System(s) is excluded.
		(Système de protection combiné )
		Source: Glossary of Terms Used in NERC Reliability Standards
Confirmed Interchange		The state where no party has denied and all required parties
		have approved the Arranged Interchange.
		(Échange confirmé)
		Source : Glossary of Terms Used in NERC Reliability Standards
Congestion		A report that the Interchange Distribution Calculator issues when
Management Report		a Reliability Coordinator initiates the Transmission Loading Relief
		procedure. This report identifies the transactions and native and
		network load curtailments that must be initiated to achieve the
		loading relief requested by the initiating Reliability Coordinator.
		(Rapport de gestion des congestions)
		Source : Glossary of Terms Used in NERC Reliability Standards
Connected to the RTP		An element is said to be " connected to the RTP " if at least one
		continuous series of RTP elements exists connecting it to the RTP.
		(Raccordé au RTP)
		Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Consequential Load		All Load that is no longer served by the Transmission system as
Loss		a result of Transmission Facilities being removed from service by
		a Protection System operation designed to isolate the fault.
		(Perte de charge subordonnée)
		Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Constrained Facility		A transmission facility (line, transformer, breaker, etc.) that is approaching, is at, or is beyond its System Operating Limit or Interconnection Reliability Operating Limit. (Installation contrainte) Source : Glossary of Terms Used in NERC Reliability Standards
Contingency		The unexpected failure or outage of a system component, such as a generator, transmission line, circuit breaker, switch or other electrical element. (Contingence) Source : Glossary of Terms Used in NERC Reliability Standards
Contingency Event Recovery Period		Effective on April 1, 2021: A period that begins at the time that the resource output begins to decline within the first one minute interval of a Reportable Balancing Contingency Event, and extends for fifteen minutes thereafter. (Période de rétablissement après contingence) Source : Glossary of Terms Used in NERC Reliability Standards
Contingency Reserve Restoration Period		Effective on April 1, 2021: A period not exceeding 90 minutes following the end of the Contingency Event Recovery Period. (Période de rétablissement de la réserve pour contingence) Source : Glossary of Terms Used in NERC Reliability Standards
Contingency Reserve		Effective until March 31, 2021 : The provision of capacity deployed by the Balancing Authority to meet the Disturbance Control Standard (DCS) and other NERC and Regional Reliability Organization contingency requirements. Effective on April 1, 2021:
		The provision of capacity that may be deployed by the Balancing Authority to respond to a Balancing Contingency Event and other contingency requirements (such as Energy Emergency Alerts as specified in the associated EOP standard). A Balancing Authority may include in its restoration of Contingency Reserve readiness to reduce Firm Demand and include it if, and only if, the Balancing Authority:
		• is experiencing a Reliability Coordinator declared Energy Emergency Alert level, and is utilizing its Contingency Reserve to mitigate an operating emergency in accordance with its emergency Operating Plan.
		<ul> <li>is utilizing its Contingency Reserve to mitigate an operating emergency in accordance with its emergency Operating Plan.</li> </ul>



Term	Acronym	Definition
		(Réserve pour contingence)
		Source : Glossary of Terms Used in NERC Reliability Standards
Contract Path		An agreed upon electrical path for the continuous flow of electrical power between the parties of an Interchange Transaction. (Chemin réservé)
Control Center		Source : Glossary of Terms Used in NERC Reliability Standards One or more facilities hosting operating personnel that monitor and control the Bulk Electric System (BES) in real-time to perform the reliability tasks, including their associated data centers, of: 1) a Reliability Coordinator, 2) a Balancing Authority, 3) a Transmission Operator for transmission Facilities at two or more locations, or 4) a Generator Operator for generation Facilities at two or more locations. (Centre de contrôle)
Control Performance Standard	CPS	Source : Glossary of Terms Used in NERC Reliability Standards The reliability standard that sets the limits of a Balancing Authority's Area Control Error over a specified time period. (Norme de performance du réglage) Source : Glossary of Terms Used in NERC Reliability Standards
Control Room		Site where are located systems, terminals or control panel for the monitoring and control of a generating or transmission facility. The control room is located in the same facility it operates and can also be used for the monitoring or control of other facilities on the same site (generating facility's switchyard, adjacent generating facility). (Salle de commande) Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Corrective Action Plan		A list of actions and an associated timetable for implementation to remedy a specific problem. (Plan d'actions correctives) Source : Glossary of Terms Used in NERC Reliability Standards
Cranking Path		A portion of the electric system that can be isolated and then energized to deliver electric power from a generation source to enable the startup of one or more other generating units. (Chemin de démarrage) Source : Glossary of Terms Used in NERC Reliability Standards
Curtailment		A reduction in the scheduled capacity or energy delivery of an Interchange Transaction. (Réduction) Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Curtailment Threshold		The minimum Transfer Distribution Factor which, if exceeded, will subject an Interchange Transaction to curtailment to relieve a transmission facility constraint. (Seuil de réduction des transactions) Source : Glossary of Terms Used in NERC Reliability Standards
Cyber Assets		Effective until September 30, 2021: Programmable electronic devices and including hardware, software, and data in those devices.
		Effective on October 1, 2021: Programmable electronic devices, including the hardware, software, and data in those devices.
		(Actifs électroniques)
		Source : Glossary of Terms Used in NERC Reliability Standards
Cyber Security Incident		<ul> <li>Effective until September 30, 2022:</li> <li>A malicious act or suspicious event that : <ul> <li>Compromises, or was an attempt to compromise, the Electronic Security Perimeter or Physical Security Perimeter, or,</li> <li>Disrupts, or was an attempt to disrupt, the operation of a BES Cyber System.</li> </ul> </li> <li>Effective on October 1, 2022: <ul> <li>A malicious act or suspicious event that:</li> <li>For a high or medium impact BES Cyber System, compromises or attempts to compromise (1) an Electronic Security Perimeter, (2) a Physical Security Perimeter, or (3) an Electronic Access Control or Monitoring System; or</li> <li>Disrupts or attempts to disrupt the operation of a BES Cyber System</li> </ul> </li> </ul>
Delayed Fault Clearing		(Incident de cybersécurité) Source : Glossary of Terms Used in NERC Reliability Standards Fault clearing consistent with correct operation of a breaker failure protection system and its associated breakers, or of a backup protection system with an intentional time delay. (Élimination retardée d'un défaut) Source : Glossary of Terms Used in NERC Reliability Standards
Demand		Effective until September 30, 2021: 1. The rate at which electric energy is delivered to or by a



Term	Acronym	Definition
		<ul><li>system or part of a system, generally expressed in kilowatts or megawatts, at a given instant or averaged over any designated interval of time.</li><li>2. The rate at which energy is being used by the custumer.</li></ul>
		<ul> <li>Effective on October 1, 2021:</li> <li>1. The rate at which electric energy is delivered to or by a <i>system</i> or part of a <i>system</i>, generally expressed in kilowatts or megawatts, at a given instant or averaged over any designated interval of time.</li> <li>2. The rate at which energy is being used by the customer.</li> </ul>
		(Demande) Source : Glossary of Terms Used in NERC Reliability Standards
Demand-Side Management	DSM	All activities or programs undertaken by any applicable entity to achieve a reduction in Demand.
		(Gestion de la demande) Source : Glossary of Terms Used in NERC Reliability Standards
Dial-up Connectivity		A data communication link that is established when the communication equipment dials a phone number and negotiates a connection with the equipment on the other end of the link. (Connectivité par lien commuté)
Direct Control Load Management	DCLM	Source : Glossary of Terms Used in NERC Reliability Standards Demand-Side Management that is under the direct control of the system operator. DCLM may control the electric supply to individual appliances or equipment on customer premises. DCLM as defined here does not include Interruptible Demand. (Gestion des charges modulables) Source : Glossary of Terms Used in NERC Reliability Standards
Dispatch Order		A set of dispatch rules such that given a specific amount of load to serve, an approximate generation dispatch can be determined. To accomplish this, each generator is ranked by priority. (Consigne de répartition) Source : Glossary of Terms Used in NERC Reliability Standards
Dispersed Load by Substations		Substation load information configured to represent a system for power flow or system dynamics modeling purposes, or both. (Charge répartie par poste) Source : Glossary of Terms Used in NERC Reliability Standards
Dispersed Power Producing Resources		Dispersed Power Producing Resources are small-scale power generation technologies using a system designed primarily for aggregating capacity providing an alternative to, or an enhancement of, the traditional electric power system. Examples include but are not



Term	Acronym	Definition
		limited to: solar, geothermal, energy storage, flywheels, wind, micro-turbines, and fuel cells. When a generating facility included in the RTP is made up of Dispersed Power Producing Resources that are connected through a system designed primarily for delivering such capacity to a common point of connection, the facilities designated as being part of the RTP are:
		a) the individual power producing resources; and
		b) the system designed primarily for delivering such capacity from the point where those resources aggregate to greater than 75 MVA to a common point of connection for a generating facility with a capacity of 75 MVA or above (gross nameplate rating); OR
		the system designed primarily for delivering such capacity from the point where those resources aggregate to reach or exceed 50 MVA to a common point of connection for a generating facility with a capacity of between 50 and 75 MVA (gross nameplate rating). (Ressources de production décentralisées)
		Source : Glossary of Terms Used in NERC Reliability Standards
Distribution Factor	DF	The portion of an Interchange Transaction, typically expressed in per unit that flows across a transmission facility (Flowgate). (Facteur de répartition) Source : Glossary of Terms Used in NERC Reliability Standards
Distribution Provider	DP	Effective until September 30, 2021:
		Provides and operates the "wires" between the transmission system and the end-use customer. For those end-use customers who are served at transmission voltages, the Transmission Owner also serves as the Distribution Provider. Thus, the Distribution Provider is not defined by a specific voltage, but rather as performing the Distribution function at any voltage.
		Effective on October 1, 2021: Provides and operates the "wires" between the <i>transmission</i> <i>system</i> and the end-use customer. For those end-use customers who are served at <i>transmission</i> voltages, the <i>Transmission</i> <i>Owner</i> also serves as the Distribution Provider. Thus, the Distribution Provider is not defined by a specific voltage, but rather as performing the distribution function at any voltage.
		(Distributeur)
Disturbance		<ol> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> <li>An unplanned event that produces an abnormal system condition.</li> <li>Any perturbation to the electric system.</li> </ol>



Term	Acronym	Definition
		<ul> <li>3. The unexpected change in ACE that is caused by the sudden failure of generation or interruption of load.</li> <li>(Perturbation)</li> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> </ul>
Disturbance Control Standard	DCS	The reliability standard that sets the time limit following a Disturbance within which a Balancing Authority must return its Area Control Error to within a specified range. (Norme de contrôle en régime perturbé) Source : Glossary of Terms Used in NERC Reliability Standards
Disturbance Monitoring Equipment	DME	<ul> <li>Devices capable of monitoring and recording system data pertaining to a Disturbance. Such devices include the following categories of recorders<sup>5</sup></li> <li>Sequence of event recorders which record equipment response to the event</li> <li>Fault recorders, which record actual waveform data replicating the system primary voltages and currents. This may include protective relays.</li> <li>Dynamic Disturbance Recorders (DDRs), which record incidents that portray power system behavior during dynamic events such as low-frequency (0.1 Hz – 3 Hz) oscillations and abnormal frequency or voltage excursions</li> </ul>
		(Équipement de surveillance des perturbations) Source : Glossary of Terms Used in NERC Reliability Standards
Dynamic Interchange Schedule or Dynamic Schedule		A time-varying energy transfer that is updated in Real-time and included in the Scheduled Net Interchange (NIS) term in the same manner as an Interchange Schedule in the affected Balancing Authorities' control ACE equations (or alternate control processes). (Programme d'échange dynamique)(Programme dynamique) Source : Glossary of Terms Used in NERC Reliability Standards
Dynamic Transfer		The provision of the real-time monitoring, telemetering, computer software, hardware, communications, engineering, energy accounting (including inadvertent interchange), and administration required to electronically move all or a portion of the real energy services associated with a generator or load out of one Balancing Authority Area into another. (Transfert dynamique) Source : Glossary of Terms Used in NERC Reliability Standards

<sup>&</sup>lt;sup>5</sup> Phasor Measurement Units and any other equipment that meets the functional requirements of DMEs may qualify as DMEs.



Term	Acronym	Definition
Economic Dispatch		The allocation of demand to individual generating units on line to effect the most economical production of electricity. (Répartition optimale de la production)
		Source : Glossary of Terms Used in NERC Reliability Standards
Electrical Energy		Effective on October 1, 2021:
		The generation or use of electric power by a device over a period
		of time, expressed in kilowatthours (kWh), megawatthours
		(MWh), or gigawatthours (GWh).
		(Énergie électrique)
	EACME	Source : Glossary of Terms Used in NERC Reliability Standards
Electronic Access Control or Monitoring	EACMS	Effective until September 30, 2021:
Systems		Cyber Assets that perform electronic access control or electronic
		access monitoring of the Electronic Security Perimeter(s) or BES Cyber Systems. This includes Intermediate Devices.
		Cyber Systems. This includes intermediate Devices.
		Effective on October 1, 2021:
		Cyber Assets that perform electronic access control or electronic
		access monitoring of the Electronic Security Perimeter(s) or BES
		Cyber Systems. This includes Intermediate Systems.
		(Systèmes de contrôle ou de surveillance des accès électroniques)
		Source : Glossary of Terms Used in NERC Reliability Standards
Electronic Access Point	EAP	A Cyber Asset interface on an Electronic Security Perimeter that
		allows routable communication between Cyber Assets outside an Electronic Security Perimeter and Cyber Assets inside an
		Electronic Security Perimeter.
		(Point d'accès électronique)
		Source : Glossary of Terms Used in NERC Reliability Standards
Electronic Security	ESP	The logical border surrounding a network to which BES Cyber
Perimeter		Systems are connected using a routable protocol.
		(Périmètre de sécurité électronique)
Element		Source : Glossary of Terms Used in NERC Reliability Standards Effective until September 30, 2021:
Liement		Any electrical device with terminals that may be connected to
		other electrical devices such as a generator, transformer, circuit
		breaker, bus section, or transmission line. An element may be
		comprised of one or more components.
		Effective on October 1, 2021:
		Any electrical device with terminals that may be connected to
		other electrical devices such as a generator, transformer, circuit
		breaker, bus section, or transmission line. An Element may be
		comprised of one or more components.



Term	Acronym	Definition
		(Élément)
		Source : Glossary of Terms Used in NERC Reliability Standards
Emergency or BES Emergency		Any abnormal system condition that requires automatic or immediate manual action to prevent or limit the failure of transmission facilities or generation supply that could adversely affect the reliability of the Bulk Electric System. (Urgence)
Emergency Rating		Source : Glossary of Terms Used in NERC Reliability Standards The rating as defined by the equipment owner that specifies the level of electrical loading or output, usually expressed in megawatts (MW) or Mvar or other appropriate units, that a system, facility, or element can support, produce, or withstand for a finite period. The rating assumes acceptable loss of equipment life or other physical or safety limitations for the equipment involved. (Caractéristiques assignées en situation d'urgence) Source : Glossary of Terms Used in NERC Reliability Standards
Emergency Request for Interchange (Emergency RFI)		Request for Interchange to be initiated for Emergency or Energy Emergency conditions. (Demande d'échange d'urgence) Source : Glossary of Terms Used in NERC Reliability Standards
Energy Emergency		A condition when a Load-Serving Entity or Balancing Authority has exhausted all other resource options and can no longer meet its expected Load obligations. (Défaillance en énergie) Source : Glossary of Terms Used in NERC Reliability Standards
Equipment Rating		The maximum and minimum voltage, current, frequency, real and reactive power flows on individual equipment under steady state, short-circuit and transient conditions, as permitted or assigned by the equipment owner. (Caractéristiques assignées d'un équipement) Source : Glossary of Terms Used in NERC Reliability Standards
Existing Transmission Commitments	ETC	Committed uses of a Transmission Service Provider's Transmission system considered when determining ATC or AFC. (Engagements de transport en vigueur) (Quantité de services de transport déjà engagés) <sup>6</sup> Source : Glossary of Terms Used in NERC Reliability Standards
External Routable Connectivity		Effective until September 30, 2021: The logical border surrounding a network to which BES Cyber Systems are connected using a routable protocol.

<sup>&</sup>lt;sup>6</sup> Term used in the French version of the document « Tarifs et conditions des services de transport d'Hydro-Québec ».



Term	Acronym	Definition
		Effective on October 1, 2021:
		The ability to access a BES Cyber System from a Cyber Asset
		that is outside of its associated Electronic Security Perimeter via
		a bi-directional routable protocol connection.
		(Connectivité externe routable)
		Source : Glossary of Terms Used in NERC Reliability Standards
Facility		A set of electrical equipment that operates as a single Bulk
		Electric System Element (e.g., a line, a generator, a shunt
		compensator, transformer, etc.).
		(Installation)
		Source : Glossary of Terms Used in NERC Reliability Standards
Facility Rating		The maximum or minimum voltage, current, frequency, or real or
		reactive power flow through a facility that does not violate the
		applicable equipment rating of any equipment comprising the
		facility.
		(Caractéristiques assignées d'une installation)
		Source : Glossary of Terms Used in NERC Reliability Standards
Fault		An event occurring on an electric system such as a short circuit,
		a broken wire, or an intermittent connection.
		(Défaut)
		Source : Glossary of Terms Used in NERC Reliability Standards
Fire Risk		The likelihood that a fire will ignite or spread in a particular
		geographic area.
		(Risque d'incendie)
		Source : Glossary of Terms Used in NERC Reliability Standards
Firm Demand		That portion of the Demand that a power supplier is obligated to
		provide except when system reliability is threatened or during
		emergency conditions.
		(Demande ferme)
		Source : Glossary of Terms Used in NERC Reliability Standards
Firm Transmission		The highest quality (priority) service offered to customers under a
Service		filed rate schedule that anticipates no planned interruption.
		(Service de transport ferme)
		Source : Glossary of Terms Used in NERC Reliability Standards
Flashover		An electrical discharge through air around or over the surface of
		insulation, between objects of different potential, caused by
		placing a voltage across the air space that results in the
		ionization of the air space.
		(Contournement électrique)
		Source : Glossary of Terms Used in NERC Reliability Standards
Flowgate		1. A portion of the Transmission system through which the



Term	Acronym	Definition
		Interchange Distribution Calculator calculates the power flow from Interchange Transactions.
		2. A mathematical construct, comprised of one or more monitored transmission Facilities and optionally one or more contingency Facilities, used to analyse the impact of power flows upon the Bulk Electric System. (Interface de transit)
		Source : Glossary of Terms Used in NERC Reliability Standards
Flowgate Methodology		The Flowgate methodology is characterized by identification of key Facilities as Flowgates. Total Flowgate Capabilities are determined based on Facility Ratings and voltage and stability limits. The impacts of Existing Transmission Commitments (ETCs) are determined by simulation. The impacts of ETC, Capacity Benefit Margin (CBM) and Transmission Reliability Margin (TRM) are subtracted from the Total Flowgate Capability, and Postbacks and counterflows are added, to determine the Available Flowgate Capability (AFC) value for that Flowgate. AFCs can be used to determine Available Transfer Capability (ATC). (Méthodologie des interfaces de transit) Source : Glossary of Terms Used in NERC Reliability Standards
Forced Outage		1. The removal from service availability of a generating unit,
l olocu Gulage		<ol> <li>The ferrieval norm service availability of a generating unit, transmission line, or other facility for emergency reasons.</li> <li>The condition in which the equipment is unavailable due to unanticipated failure.</li> <li>(Indisponibilité forcée)</li> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> </ol>
Frequency Bias		A value, usually expressed in megawatts per 0.1 Hertz (MW/0.1 Hz), associated with a Balancing Authority Area that approximates the Balancing Authority Area's response to Interconnection frequency error. (Compensation en fréquence) Source : Glossary of Terms Used in NERC Reliability Standards
Frequency Bias Setting		A number, either fixed or variable, usually expressed in MW/0.1 Hz, included in a Balancing Authority's Area Control Error equation to account for the Balancing Authority's inverse Frequency Response contribution to the Interconnection, and discourage response withdrawal through secondary control systems. (Réglage de la compensation en fréquence) Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Frequency Deviation		A change in Interconnection frequency.
		(Déviation de fréquence)
		Source : Glossary of Terms Used in NERC Reliability Standards
Frequency Error		The difference between the actual and scheduled frequency. ( $F_A$
		– Fs)
		(Écart de fréquence)
		Source : Glossary of Terms Used in NERC Reliability Standards
Frequency Regulation		The ability of a Balancing Authority to help the Interconnection
		maintain Scheduled Frequency. This assistance can include both
		turbine governor response and Automatic Generation Control.
		(Réglage de la fréquence)
		Source : Glossary of Terms Used in NERC Reliability Standards
Frequency Response		(Equipment) The ability of a system or elements of the system to
		react or respond to a change in system frequency.
		(System) The sum of the change in demand, plus the change in
		generation, divided by the change in frequency, expressed in
		megawatts per 0.1 Hertz (MW/0.1 Hz).
		(Réponse en fréquence)
		Source : Glossary of Terms Used in NERC Reliability Standards
Frequency Response	FRM	The median of all the Frequency Response observations
Measure		reported annually by Balancing Authorities or Frequency
		Response Sharing Groups for frequency events specified by the
		ERO. This will be calculated as MW/0.1Hz.
		(Mesure de la réponse en fréquence)
		Source: Glossary of terms used in NERC Reliability Standards
Frequency Response	FRO	The Balancing Authority's share of the required
Obligation		Frequency Response needed for the reliable operation of
		an Interconnection. This will be calculated as MW/0.1Hz.
		(Obligation de réponse en fréquence)
		Source: Glossary of terms used in NERC Reliability Standards
Frequency Response	FRSG	A group whose members consist of two or more Balancing
Sharing Group		Authorities that collectively maintain, allocate, and supply
		operating resources required to jointly meet the sum of the
		Frequency Response Obligations of its members.
		(Groupe de partage de la réponse en fréquence)
		Source: Glossary of terms used in NERC Reliability Standards
Generation Capability	GCIR	The amount of generation capability from external sources
Import Requirement		identified by a Load-Serving Entity (LSE) or Resource Planner
		(RP) to meet its generation reliability or resource adequacy
		requirements as an alternative to internal resources.
		(Capacité de production requise en importation)
		Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Generator Operator	GOP	<ul> <li>Effective until September 30, 2021: The entity that operates generating unit(s) and performs the functions of supplying energy and Interconnected Operations Services.</li> <li>Effective on October 1, 2021: The entity that operates generating Facility(ies) and performs the functions of supplying energy and Interconnected Operations Services.</li> </ul>
		(Exploitant d'installation de production)
		Source : Glossary of Terms Used in NERC Reliability Standards
Generator Owner	GO	Effective until September 30, 2021:
		Entity that owns and maintains generating units.
		Effective on October 1, 2021:
		Entity that owns and maintains generating Facility(ies).
		(Propriétaire d'installation de production)
		Source : Glossary of Terms Used in NERC Reliability Standards
Generator Shift Factor	GSF	A factor to be applied to a generator's expected change in output to determine the amount of flow contribution that change in output will impose on an identified transmission facility or Flowgate. (Facteur de changement de la production) Source : Glossary of Terms Used in NERC Reliability Standards
Generator-to-Load Distribution Factor	GLDF	The algebraic sum of a Generator Shift Factor and a Load Shift Factor to determine the total impact of an Interchange Transaction on an identified transmission facility or Flowgate. (Facteur de répartition production-charge) Source : Glossary of Terms Used in NERC Reliability Standards
Geomagnetic Disturbance Vulnerability Assessment or GMD Vulnerability Assessment Host Balancing Authority	GMD	Effective on April 1, 2021: Documented evaluation of potential susceptibility to voltage collapse, Cascading, or localized damage of equipment due to geomagnetic disturbances. (Évaluation de vulnérabilité aux perturbations géomagnétiques ) ou (Évaluation de vulnérabilité aux PGM ) Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF) 1. A Balancing Authority that confirms and implements Interchange Transactions for a Purchasing Selling Entity that operates generation or serves customers directly within the Balancing Authority's metered boundaries.



Term	Acronym	Definition
		<ol> <li>The Balancing Authority within whose metered boundaries a jointly owned unit is physically located.</li> <li>(Responsable de l'équilibrage - hôte)</li> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> </ol>
Hourly Value		Data measured on a Clock Hour basis. (Donnée horaire) Source : Glossary of Terms Used in NERC Reliability Standards
Implemented Interchange		The state where the Balancing Authority enters the Confirmed Interchange into its Area Control Error equation. (Échange mis en oeuvre) Source : Glossary of Terms Used in NERC Reliability Standards
Inadvertent Interchange		The difference between the Balancing Authority's Net Actual Interchange and Net Scheduled Interchange. (I <sub>A</sub> – I <sub>S</sub> ) (Échange involontaire) Source : Glossary of Terms Used in NERC Reliability Standards
Independent Power Producer	IPP	Any entity that owns or operates an electricity generating facility that is not included in an electric utility's rate base. This term includes, but is not limited to, cogenerators and small power producers and all other nonutility electricity producers, such as exempt wholesale generators, who sell electricity. (Producteur indépendant) Source : Glossary of Terms Used in NERC Reliability Standards
Institute of Electrical and Electronics Engineers, Inc.	IEEE	
Interactive Remote Access		User-initiated access by a person employing a remote access client or other remote access technology using a routable protocol. Remote access originates from a Cyber Asset that is not an Intermediate Device and not located within any of the Responsible Entity's Electronic Security Perimeter(s) or at a defined Electronic Access Point (EAP). Remote access may be initiated from: 1) Cyber Assets used or owned by the Responsible Entity, 2) Cyber Assets used or owned by employees, and 3) Cyber Assets used or owned by vendors, contractors, or consultants. Interactive remote access does not include system-to-system process communications. (Accès distant interactif)
Interchange		Source : Glossary of Terms Used in NERC Reliability Standards Energy transfers that cross Balancing Authority boundaries. (Échange) Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Interchange Authority	ΙΑ	Effective until September 30, 2021: The responsible entity that authorizes implementation of valid and balanced Interchange Schedules between Balancing Authority Areas, and ensures communication of Interchange information for reliability assessment purposes. Effective on October 1, 2021: The responsible entity that authorizes the implementation of valid and balanced Interchange Schedules between Balancing Authority Areas, and ensures communication of Interchange information for reliability assessment purposes. (Responsable des échanges)
Interchange Distribution Calculator	IDC	Source : Glossary of Terms Used in NERC Reliability Standards The mechanism used by Reliability Coordinators in the Eastern Interconnection to calculate the distribution of Interchange Transactions over specific Flowgates. It includes a database of all Interchange Transactions and a matrix of the Distribution Factors for the Eastern Interconnection. (Logiciel de calcul de la répartition des échanges) Source : Glossary of Terms Used in NERC Reliability Standards
Interchange Meter Error	Іме	Effective on July 1, 2021: A term used in the Reporting ACE calculation to compensate for data or equipment errors affecting any other components of the Reporting ACE calculation. (Erreur de comptage d'échange) Source : Glossary of Terms Used in NERC Reliability Standards
Interchange Schedule		An agreed-upon Interchange Transaction size (megawatts), start and end time, beginning and ending ramp times and rate, and type required for delivery and receipt of power and energy between the Source and Sink Balancing Authorities involved in the transaction. (Programme d'échange) Source : Glossary of Terms Used in NERC Reliability Standards
Interchange Transaction		An agreement to transfer energy from a seller to a buyer that crosses one or more Balancing Authority Area boundaries. (Transaction d'échange) Source : Glossary of Terms Used in NERC Reliability Standards
Interchange Transaction Tag or Tag		The details of an Interchange Transaction required for its physical implementation. (Étiquette de transaction d'échange)(Étiquette) Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Interconnected		Effective until September 30, 2021:
Operations Service		A service (exclusive of basic energy and transmission services)
		that is required to support the reliable operation of
		interconnected Bulk Electric Systems.
		Effective on October 1, 2021:
		A service (exclusive of basic energy and Transmission Services)
		that is required to support the Reliable Operation of
		interconnected Bulk Electric Systems.
		(Services d'exploitation en réseaux interconnectés)
		Source : Glossary of Terms Used in NERC Reliability Standards
Interconnection		Effective until September 30, 2021:
		When capitalized, any one of the four major electric system
		networks in North America: Eastern, Western, ERCOT and
		Quebec.
		Effective on October 1, 2021:
		A geographic area in which the operation of Bulk Power System
		components is synchronized such that the failure of one or more
		of such components may adversely affect the ability of the
		operators of other components within the system to maintain
		Reliable Operation of the Facilities within their control. When
		capitalized, any one of the four major electric system networks in
		North America: Eastern, Western, ERCOT and Quebec.
		(Interconnexion)
		Source : Glossary of Terms Used in NERC Reliability Standards
Interconnection	IROL	Effective until September 30, 2021:
Reliability Operating		A System Operating Limit that, if violated, could lead to
Limit		instability, uncontrolled separation, or Cascading Outages that
		adversely impact the reliability of the Bulk Electric System.
		Effective on October 1, 2021:
		A System Operating Limit that, if violated, could lead to
		instability, uncontrolled separation, or Cascading outages that
		adversely impact the reliability of the Bulk Electric System.
		(Limite d'exploitation pour la fiabilité de l'Interconnexion)
		Source : Glossary of Terms Used in NERC Reliability Standards
Interconnection	IROL TV	The maximum time that an Interconnection Reliability Operating
Reliability Operating		Limit can be violated before the risk to the interconnection or
		other Reliability Coordinator Area(s) becomes greater than



Term	Acronym	Definition
Limit T <sub>v</sub>		acceptable. Each Interconnection Reliability Operating Limit's Tv shall be less than or equal to 30 minutes. (Tv de limite d'exploitation pour la fiabilité de l'Interconnexion) Source : Glossary of Terms Used in NERC Reliability Standards
Intermediate Balancing Authority		A Balancing Authority on the scheduling path of an Interchange Transaction other than the Source Balancing Authority and Sink Balancing Authority. (Responsable de l'équilibrage intermédiaire) Source : Glossary of Terms Used in NERC Reliability Standards
Intermediate System		A Cyber Asset or collection of Cyber Assets performing access control to restrict Interactive Remote Access to only authorized users. The Intermediate System must not be located inside the Electronic Security Perimeter. (Système intermédiaire) Source : Glossary of Terms Used in NERC Reliability Standards
Interpersonal Communication		Any medium that allows two or more individuals to interact, consult, or exchange information. (Communication interpersonnelle) Source: Glossary of terms used in NERC Reliability Standards
Interruptible Load or Interruptible Demand		Demand that the end-use customer makes available to its Load- Serving Entity via contract or agreement for curtailment. (Charge interruptible)(Demande interruptible) Source : Glossary of Terms Used in NERC Reliability Standards
Joint Control		Automatic Generation Control of jointly owned units by two or more Balancing Authorities. (Réglage conjoint) Source : Glossary of Terms Used in NERC Reliability Standards
Limiting Element		The element that is 1.) Either operating at its appropriate rating, or 2,) Would be following the limiting contingency. Thus, the Limiting Element establishes a system limit. (Élément limiteur) Source : Glossary of Terms Used in NERC Reliability Standards
Load		<ol> <li>An end-use device or customer that receives power from the electric system.</li> <li>Power consumed by a customer. (see Demand) (Charge)</li> <li>Sources: 1. Glossary of Terms Used in NERC Reliability Standards</li> <li>Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)</li> </ol>
Load Shift Factor	LSF	A factor to be applied to a load's expected change in demand to determine the amount of flow contribution that change in demand will impose on an identified transmission facility or monitored Flowgate.



Term	Acronym	Definition
		(Facteur de changement de charge)
		Source : Glossary of Terms Used in NERC Reliability Standards
Load-Serving Entity	LSE	Effective until September 30, 2021:
		Secures energy and transmission service (and related
		Interconnected Operations Services) to serve the electrical
		demand and energy requirements of its end-use customers.
		Effective on October 1, 2021:
		Secures energy and Transmission Service (and related
		Interconnected Operations Services) to serve the electrical
		demand and energy requirements of its end-use customers.
		(Responsable de l'approvisionnement)
		Source : Glossary of Terms Used in NERC Reliability Standards
Long-Term		Transmission planning period that covers years six through ten
Transmission Planning		or beyond when required to accommodate any known longer
Horizon		lead time projects that may take longer than ten years to
		complete.
		(Horizon de planification du transport à long terme)
		Source : Glossary of Terms Used in NERC Reliability Standards
Main Transmission	RTP	The transmission system comprised of equipment and lines
System		generally carrying large quantities of energy and of generating
		facilities of 50 MVA or more, providing control over reliability
		parameters:
		Generation/load balancing
		Frequency control
		Level of operating reserves
		Voltage control of the system and tie lines
		Power flows within operating limits
		Coordination and monitoring of interchange transactions
		Monitoring of special protection systems     System restoration
		<ul> <li>System restoration</li> <li>(Réseau de transport principal)</li> </ul>
		(Reseau de transport principal) Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Minimum Vegetation	MVCD	Effective until September 30, 2021:
Clearance Distance	WVCD	The calculated minimum distance stated in feet (meters) to
		prevent flash-over between conductors and vegetation, for
		various latitudes and operating voltages.
		Effective on October 1, 2021:
		The calculated minimum distance stated in feet (meters) to
		prevent flash-over between conductors and vegetation, for
		various altitudes and operating voltages.



Term	Acronym	Definition
		(Distance de dégagement minimale de la végétation) Source : Glossaire des termes en usage dans les normes de fiabilité (NERC)
Misoperation		The failure of a Composite Protection System to operate as intended for protection purposes. Any of the following is a Misoperation:
		<ol> <li>Failure to Trip – During Fault – A failure of a Composite Protection System to operate for a Fault condition for which it is designed. The failure of a Protection System component is not a Misoperation as long as the performance of the Composite Protection System is correct.</li> </ol>
		<ol> <li>Failure to Trip – Other Than Fault – A failure of a Composite Protection System to operate for a non-Fault condition for which it is designed, such as a power swing, undervoltage, overexcitation, or loss of excitation. The failure of a Protection System component is not a Misoperation as long as the performance of the Composite Protection System is correct.</li> </ol>
		<ol> <li>Slow Trip – During Fault – A Composite Protection System operation that is slower than required for a Fault condition if the duration of its operating time resulted in the operation of at least one other Element's Composite Protection System.</li> </ol>
		4. Slow Trip – Other Than Fault – A Composite Protection System operation that is slower than required for a non- Fault condition, such as a power swing, undervoltage, overexcitation, or loss of excitation, if the duration of its operating time resulted in the operation of at least one other Element's Composite Protection System.
		<ol> <li>Unnecessary Trip – During Fault – An unnecessary Composite Protection System operation for a Fault condition on another Element.</li> </ol>
		<ol> <li>Unnecessary Trip – Other Than Fault – An unnecessary Composite Protection System operation for a non-Fault condition. A Composite Protection System operation that</li> </ol>



Term	Acronym	Definition
		is caused by personnel during on-site maintenance, testing, inspection, construction, or commissioning activities is not a Misoperation.
Most Severe Single Contingency	MSSC	(Fonctionnement incorrect) Source : Glossary of Terms Used in NERC Reliability Standards Effective on April 1, 2021: The Balancing Contingency Event, due to a single contingency identified using system models maintained within the Reserve Sharing Group (RSG) or a Balancing Authority's area that is not part of a Reserve Sharing Group, that would result in the greatest loss (measured in MW) of resource output used by the RSG or a Balancing Authority that is not participating as a member of a RSG at the time of the event to meet Firm Demand and export obligation (excluding export obligation for which Contingency Reserve obligations are being met by the Sink Balancing Authority). (Contigence simple la plus grave)
Native Balancing Authority		Source : Glossary of Terms Used in NERC Reliability Standards 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. (Responsable de l'équilibrage délégant) Source: Glossary of Terms Used in NERC Reliability Standards
Native Load		The end-use customers that the Load-Serving Entity is obligated to serve. (Charge locale) Source : Glossary of Terms Used in NERC Reliability Standards
Near-Term Transmission Planning Horizon		The transmission planning period that covers Year One through five. (Horizon de planification du transport à court terme) Source : Glossary of Terms Used in NERC Reliability Standards
Net Actual Interchange Net Energy for Load	NEL	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas. (Échange réel net) Source : Glossary of Terms Used in NERC Reliability Standards Net Balancing Authority Area generation, plus energy received from other Balancing Authority Areas, less energy delivered to Balancing Authority Areas through interchange. It includes Balancing Authority Area losses but excludes energy required for storage at energy storage facilities.



Term	Acronym	Definition
		(Énergie disponible nette)
		Source : Glossary of Terms Used in NERC Reliability Standards
Net Scheduled		The algebraic sum of all Interchange Schedules across a given
Interchange		path or between Balancing Authorities for a given period or
		instant in time.
		(Échange programmé net)
		Source : Glossary of Terms Used in NERC Reliability Standards
Network Integration		Service that allows an electric transmission customer to
Transmission Service		integrate, plan, economically dispatch and regulate its network
		reserves in a manner comparable to that in which the
		Transmission Owner serves Native Load customers.
		(Service de transport en réseau intégré)
		Source : Glossary of Terms Used in NERC Reliability Standards
Non-Consequential		Non-Interruptible Load loss that does not include: (1)
Load Loss		Consequential Load Loss, (2) the response of voltage sensitive
		Load, or (3) Load that is disconnected from the System by end-
		user equipment.
		(Perte de charge non subordonnée)
		Source : Glossary of Terms Used in NERC Reliability Standards
Non-Firm Transmission		Transmission service that is reserved on an as-available basis
Service		and is subject to curtailment or interruption.
		(Service de transport non ferme)
		Source : Glossary of Terms Used in NERC Reliability Standards
Non-Spinning Reserve		1. That generating reserve not connected to the system but
		capable of serving demand within a specified time.
		2. Interruptible load that can be removed from the system in a
		specified time.
		(Réserve arrêtée)
		Source : Glossary of Terms Used in NERC Reliability Standards
Normal Clearing		A protection system operates as designed and the fault is
		cleared in the time normally expected with proper functioning of
		the installed protection systems.
		(Élimination normale d'un défaut)
		Source : Glossary of Terms Used in NERC Reliability Standards
Normal Rating		The rating as defined by the equipment owner that specifies the
		level of electrical loading, usually expressed in megawatts (MW)
		or other appropriate units that a system, facility, or element can
		support or withstand through the daily demand cycles without
		loss of equipment life.
		(Caractéristiques assignées en situation normale)
		Source : Glossary of Terms Used in NERC Reliability Standards
North American		See "Bulk Electric System".
Interconnected Power		(Réseau interconnecté d'Amérique du Nord)



Term	Acronym	Definition
System		Source : Reliability Coordinator of Quebec
Not connected to the RTP		An element is said to be " not connected to the RTP " if no continuous series of RTP elements exists connecting it to the RTP. (Non raccordé au RTP) Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Nuclear Plant Generator Operator	NUC OP	Any Generator Operator or Generator Owner that is a Nuclear Plant Licensee responsible for operation of a nuclear facility licensed to produce commercial power. (Exploitant de centrale nucléaire) Source : Glossary of Terms Used in NERC Reliability Standards
Nuclear Plant Interface Requirements	NPIRs	The requirements based on NPLRs and Bulk Electric System requirements that have been mutually agreed to by the Nuclear Plant Generator Operator and the applicable Transmission Entities. (Exigences relatives à l'interface de centrale nucléaire) Source : Glossary of Terms Used in NERC Reliability Standards
Nuclear Plant Licensing Requirements	NPLRs	Requirements included in the design basis of the nuclear plant and statutorily mandated for the operation of the plant, including nuclear power plant licensing requirements for: 1) Off-site power supply to enable safe shutdown of the plant during an electric system or plant event; and 2) Avoiding preventable challenges to nuclear safety as a result of an electric system disturbance, transient, or condition. (Exigences de délivrance d'un permis de centrale nucléaire) Source : Glossary of Terms Used in NERC Reliability Standards
Nuclear Plant Off-site Power Supply (Off-site Power)		The electric power supply provided from the electric system to the nuclear power plant distribution system as required per the nuclear power plant license. (Alimentation électrique externe de centrale nucléaire) Source : Glossary of Terms Used in NERC Reliability Standards
Off-Peak		Those hours or other periods defined by NAESB business practices, contract, agreements, or guides as periods of lower electrical demand. (Hors pointe) Source : Glossary of Terms Used in NERC Reliability Standards
On-Peak		Those hours or other periods defined by NAESB business practices, contract, agreements, or guides as periods of higher electrical demand. (En pointe) Source : Glossary of Terms Used in NERC Reliability Standards
Open Access Same Time Information	OASIS	An electronic posting system that the Transmission Service Provider maintains for transmission access data and that allows all transmission customers to view the data simultaneously.



Term	Acronym	Definition
Service		(Système d'information et de réservation des capacités de transport) Source : Glossary of Terms Used in NERC Reliability Standards
Open Access Transmission Tariff	OATT	Electronic transmission tariff accepted by the U.S. Federal Energy Regulatory Commission requiring the Transmission Service Provider to furnish to all shippers with non-discriminating service comparable to that provided by Transmission Owners to themselves. (Tarifs et conditions des services de transport) Source : Glossary of Terms Used in NERC Reliability Standards
Operating Instruction		A command by operating personnel responsible for the Real-time operation of the interconnected Bulk Electric System to change or preserve the state, status, output, or input of an Element of the Bulk Electric System or Facility of the Bulk Electric System. (A discussion of general information and of potential options or alternatives to resolve Bulk Electric System operating concerns is not a command and is not considered an Operating Instruction.) (Instruction d'exploitation ) Source: Glossary of terms used in NERC Reliability Standards
Operating Plan		A document that identifies a group of activities that may be used to achieve some goal. An Operating Plan may contain Operating Procedures and Operating Processes. A company-specific system restoration plan that includes an Operating Procedure for black-starting units, Operating Processes for communicating restoration progress with other entities, etc., is an example of an Operating Plan. (Plan d'exploitation) Source : Glossary of Terms Used in NERC Reliability Standards
Operating Procedure		A document that identifies specific steps or tasks that should be taken by one or more specific operating positions to achieve specific operating goal(s). The steps in an Operating Procedure should be followed in the order in which they are presented, and should be performed by the position(s) identified. A document that lists the specific steps for a system operator to take in removing a specific transmission line from service is an example of an Operating Procedure. (Procédure d'exploitation) Source : Glossary of Terms Used in NERC Reliability Standards
Operating Process		A document that identifies general steps for achieving a generic operating goal. An Operating Process includes steps with options that may be selected depending upon Real-time conditions. A guideline for controlling high voltage is an example of an



Term	Acronym	Definition
		Operating Process.
		(Processus d'exploitation)
		Source : Glossary of Terms Used in NERC Reliability Standards
Operating Reserve		That capability above firm system demand required to provide for regulation, load forecasting error, equipment forced and scheduled outages and local area protection. It consists of
		spinning and non-spinning reserve.
		(Réserve d'exploitation)
		Source : Glossary of Terms Used in NERC Reliability Standards
Operating Reserve –		The portion of Operating Reserve consisting of:
Spinning		Generation synchronized to the system and fully available to
		serve load within the Disturbance Recovery Period following the contingency event; or
		<ul> <li>Load fully removable from the system within the Disturbance Recovery Period following the contingency</li> </ul>
		event.
		(Réserve d'exploitation synchronisée)
		Source : Glossary of Terms Used in NERC Reliability Standards
Operating Reserve –		The portion of Operating Reserve consisting of:
Supplemental		<ul> <li>Generation (synchronized or capable of being synchronized to the system) that is fully available to serve load within the Disturbance Recovery Period following the contingency event; or</li> </ul>
		Load fully removable from the system within the Disturbance Recovery Period following the contingency
		event. (Réserve d'exploitation supplémentaire)
		Source : Glossary of Terms Used in NERC Reliability Standards
Operating Voltage		The voltage level by which an electrical system is designated and to which certain operating characteristics of the system are related; also, the effective (root-mean-square) potential difference between any two conductors or between a conductor and the ground. The actual voltage of the circuit may vary somewhat above or below this value. (Tension d'exploitation) Source : Glossary of Terms Used in NERC Reliability Standards
Operational Planning	OPA	Effective until June 30, 2023:
Analysis		An evaluation of projected system conditions to assess anticipated (pre-contingency) and potential (post-contingency) conditions for next-day operations. The evaluation shall reflect applicable inputs including, but not limited to, load forecasts, generation output levels, interchange, known protection system



Term	Acronym	Definition
		and special protection system status or degradation, transmission outages, generator outages, facility ratings, and identified phase angle and equipment limitations. (Operational planning analysis may be provided through internal systems or through third-party services.)
		Effective on July 1 <sup>st</sup> , 2023: An evaluation of projected system conditions to assess anticipated (pre-Contingency) and potential (post-Contingency) conditions for next-day operations. The evaluation shall reflect applicable inputs including, but not limited to: load forecasts; generation output levels; Interchange; known Protection System and Remedial Action Scheme status or degradation, functions, and limitations; Transmission outages; generator outages; Facility Ratings; and identified phase angle and equipment limitations. (Operational Planning Analysis may be provided through internal systems or through third-party services.)
Operations Support Personnel		(Analyse de planification opérationnelle) Source : Glossary of Terms Used in NERC Reliability Standards Individuals who perform current day or next day outage coordination or assessments, or who determine SOLs, IROLs, or operating nomograms, in direct support of Real-time operations of the Bulk Electric System.
		(Personnel de soutien à l'exploitation)
Outage Transfer Distribution Factor	OTDF	Source : Glossary of terms used in NERC Reliability Standards In the post-contingency configuration of a system under study, the electric Power Transfer Distribution Factor (PTDF) with one or more system Facilities removed from service (outaged). (Facteur de répartition en cas de panne) Source : Glossary of Terms Used in NERC Reliability Standards
Overlap Regulation Service		A method of providing regulation service in which the Balancing Authority providing the regulation service incorporates another Balancing Authority's actual interchange, frequency response, and schedules into providing Balancing Authority's AGC/ACE equation. (Service étendu de régulation) Source : Glossary of Terms Used in NERC Reliability Standards
Participation Factors		A set of dispatch rules such that given a specific amount of load to serve, an approximate generation dispatch can be determined. To accomplish this, generators are assigned a percentage that



Term	Acronym	Definition
		they will contribute to serve load.
		(Facteurs de participation)
		Source : Glossary of Terms Used in NERC Reliability Standards
Peak Demand		1. The highest hourly integrated Net Energy For Load within a
		Balancing Authority Area occurring within a given period
		(e.g., day, month, season, or year).
		<ol> <li>The highest instantaneous demand within the Balancing Authority Area.</li> </ol>
		(Demande de pointe)
		Source : Glossary of Terms Used in NERC Reliability Standards
Performance-Reset		The time period that the entity being assessed must operate
Period		without any violations to reset the level of non compliance to
		zero.
		(Délai de rétablissement de l'état de conformité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Physical Access Control	PACS	Cyber Assets that control, alert, or log access to the Physical
Systems		Security Perimeter(s), exclusive of locally mounted hardware or
		devices at the Physical Security Perimeter such as motion
		sensors, electronic lock control mechanisms, and badge readers.
		(Systèmes de contrôle des accès physiques)
		Source : Glossary of Terms Used in NERC Reliability Standards
Physical Security	PSP	The physical border surrounding locations in which BES Cyber
Perimeter		Assets, BES Cyber Systems, or Electronic Access Control or
		Monitoring Systems reside, and for which access is controlled.
		(Périmètre de sécurité physique)
		Source : Glossary of Terms Used in NERC Reliability Standards
Planning Authority	PA	Effective until September 30, 2021:
		The responsible entity that coordinates and integrates
		transmission facility and service plans, resource plans, and
		protection systems.
		Effective on October 1, 2021:
		The responsible entity that coordinates and integrates
		transmission Facilities and service plans, resource plans, and
		Protection Systems.
		Theelion bysiens.
		(Responsable de la planification)
		Source : Glossary of Terms Used in NERC Reliability Standards
Planning Assessment		Documented evaluation of future Transmission System
		performance and Corrective Action Plans to remedy identified
		deficiencies.
		(Évaluation de la planification)
		Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Planning Coordinator	PC	See Planning Authority. (Coordonnateur de la planification)
		Source : Glossary of Terms Used in NERC Reliability Standards
Point of Delivery	POD	A location that the Transmission Service Provider specifies on its transmission system where an Interchange Transaction leaves or a Load-Serving Entity receives its energy. <b>(Point de livraison)</b> Source : Glossary of Terms Used in NERC Reliability Standards
Point of Receipt	POR	Effective until September 30, 2021:
Point of Receipt	FUK	A location that the Transmission Service Provider specifies on its transmission system where an Interchange Transaction enters or a Generator delivers its output.
		<b>Effective on October 1, 2021:</b> A location that the Transmission Service Provider specifies on its transmission system where an Interchange Transaction enters or a generator delivers its output.
		(Point de réception)
		Source : Glossary of Terms Used in NERC Reliability Standards
Point to Point Transmission Service	РТР	The reservation and transmission of capacity and energy on either a firm or non-firm basis from the Point(s) of Receipt to the Point(s) of Delivery. (Service de transport de point à point) Source : Glossary of Terms Used in NERC Reliability Standards
Postback		Positive adjustments to ATC or AFC as defined in Business Practices. Such Business Practices may include processing of redirects and unscheduled service. (Capacité réofferte) Source : Glossary of Terms Used in NERC Reliability Standards
Power Transfer Distribution Factor	PTDF	In the pre-contingency configuration of a system under study, a measure of the responsiveness or change in electrical loadings on transmission system Facilities due to a change in electric power transfer from one area to another, expressed in percent (up to 100%) of the change in power transfer. (Facteur de répartition de puissance) Source : Glossary of Terms Used in NERC Reliability Standards
Pre-Reporting Contingency Event ACE Value		Effective on April 1, 2021: The average value of Reporting ACE, or Reserve Sharing Group Reporting ACE when applicable, in the 16-second interval immediately prior to the start of the Contingency Event Recovery Period based on EMS scan rate data. (Valeur de l'ACE avant déclaration de la contingence )



Term	Acronym	Definition
		Source : Glossary of Terms Used in NERC Reliability Standards
Pro Forma Tariff		Usually refers to the standard OATT and/or associated transmission rights mandated by the U.S. Federal Energy Regulatory Commission Order No. 888. (Convention de service de transport type) Source : Glossary of Terms Used in NERC Reliability Standards
Protected Cyber Assets	PCA	One or more Cyber Assets connected using a routable protocol within or on an Electronic Security Perimeter that is not part of the highest impact BES Cyber System within the same Electronic Security Perimeter. The impact rating of Protected Cyber Assets is equal to the highest rated BES Cyber System in the same ESP. (Actifs électroniques protégés) Source : Glossary of Terms Used in NERC Reliability Standards
Protection System		<ul> <li>Protection System</li> <li>Protective relays which respond to electrical quantities,</li> <li>Communications systems necessary for correct operation of protective functions</li> <li>Voltage and current sensing devices providing inputs to protective relays</li> <li>Station dc supply associated with protective functions (including station batteries, battery charges, and non-battery-based dc supply), and</li> <li>Control circuitry associated with protective functions through the trip coil(s) of the circuit breakers or other interrupting devices</li> </ul>
Protection System Coordination Study		Source : Glossary of Terms Used in NERC Reliability Standards Effective on October 1, 2024: An analysis to determine whether Protection Systems operate in the intended sequence during Faults. (Étude de coordination des systèmes de protection) Source : Glossary of Terms Used in NERC Reliability Standards
Protection System Maintenance Program	PSMP	<ul> <li>An ongoing program by which Protection System, Automatic Reclosing, and Sudden Pressure Relaying Components are kept in working order and proper operation of malfunctioning Components is restored. A maintenance program for a specific Component includes one or more of the following activities:</li> <li>Verify — Determine that the Component is functioning correctly.</li> </ul>



Term	Acronym	Definition
		<ul> <li>Monitor — Observe the routine in-service operation of the Component.</li> <li>Test — Apply signals to a Component to observe functional performance or output behavior, or to diagnose problems.</li> <li>Inspect — Examine for signs of Component failure, reduced performance or degradation.</li> <li>Calibrate — Adjust the operating threshold or measurement accuracy of a measuring element to meet the intended performance requirement.</li> <li>(Programme d'entretien des systèmes de protection)</li> </ul>
Pseudo-Tie		Source : Glossary of Terms Used in NERC Reliability Standards Effective until June 30, 2021: A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' control ACE equations (or alternate control processes). Effective on July 1, 2021: A time-varying energy transfer that is updated in Real-time and included in the Actual Net Interchange term (NIA) in the same manner as a Tie Line in the affected Balancing Authorities' Reporting ACE equation (or alternate control processes). (Pseudo-interconnexion) Source : Glossary of Terms Used in NERC Reliability Standards
Purchasing-Selling Entity	PSE	The entity that purchases or sells, and takes title to, energy, capacity, and Interconnected Operations Services. Purchasing- Selling Entities may be affiliated or unaffiliated merchants and may or may not own generating facilities. (Négociant) Source : Glossary of Terms Used in NERC Reliability Standards
Ramp Rate or Ramp		<ul> <li>(Schedule) The rate, expressed in megawatts per minute, at which the interchange schedule is attained during the ramp period.</li> <li>(Generator) The rate, expressed in megawatts per minute, that a generator changes its output.</li> <li>(Taux de rampe)(Rampe)</li> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> </ul>



Term	Acronym	Definition
Rated Electrical Operating Conditions		The specified or reasonably anticipated conditions under which the electrical system or an individual electrical circuit is
		intend/designed to operate. (Conditions d'exploitation électriques assignées)
		Source : Glossary of Terms Used in NERC Reliability Standards
Rated System Path Methodology		The Rated System Path Methodology is characterized by an initial Total Transfer Capability (TTC), determined via simulation. Capacity Benefit Margin, Transmission Reliability Margin, and Existing Transmission Commitments are subtracted from TTC, and Postbacks and counterflows are added as applicable, to derive Available Transfer Capability. Under the Rated System Path Methodology, TTC results are generally reported as specific transmission path capabilities.
		(Méthodologie par chemin de transport spécifique)
		Source : Glossary of Terms Used in NERC Reliability Standards
Rating		The operational limits of a transmission system element under a set of specified conditions. (Caractéristiques assignées)
Reactive Power		Source : Glossary of Terms Used in NERC Reliability Standards The portion of electricity that establishes and sustains the electric
		and magnetic fields of alternating-current equipment. Reactive Power must be supplied to most types of magnetic equipment, such as motors and transformers. It also must supply the reactive losses on transmission facilities. Reactive Power is provided by generators, synchronous condensers, or electrostatic equipment such as capacitors and directly influences electric system voltage. It is usually expressed in kilovars (kvar) or megavars (Mvar). (Puissance réactive) Source : Glossary of Terms Used in NERC Reliability Standards
Real Power		The portion of electricity that supplies energy to the Load. (Puissance active) Source : Glossary of Terms Used in NERC Reliability Standards
Real-time		Present time as opposed to future time. (From Interconnection Reliability Operating Limits standard.) (Temps réel) Source : Glossary of Terms Used in NERC Reliability Standards
Real-time Assessment	RTA	Effective until September 30, 2021: An evaluation of system conditions using real-time data to assess existing (pre-contingency) and potential (post- contingency) operating conditions. The evaluation shall reflect applicable inputs including, but not limited to, load, generation output levels, known protection system and special protection



Term	Acronym	Definition
		system status or degradation, transmission outages, generator outages, interchange, facility ratings, and identified phase angle and equipment limitations. (Real-time assessment may be provided through internal systems or through third-party services.)
		Effective from October 1, 2021 until June 30, 2023: An evaluation of system conditions using Real-time data to assess existing (pre-Contingency) and potential (post- Contingency) operating conditions. The assessment shall reflect applicable inputs including, but not limited to, load, generation output levels, known Protection System and Special Protection System status or degradation, Transmission outages, generator outages, Interchange, Facility Ratings, and identified phase angle and equipment limitations. (Real-time Assessment may be provided through internal systems or through third-party services.)
		Effective on July 1 <sup>st</sup> , 2023: An evaluation of system conditions using Real-time data to assess existing (pre-Contingency) and potential (post- Contingency) operating conditions. The assessment shall reflect applicable inputs including, but not limited to: load; generation output levels; known Protection System and Remedial Action Scheme status or degradation, functions, and limitations; Transmission outages; generator outages; Interchange; Facility Ratings; and identified phase angle and equipment limitations. (Realtime Assessment may be provided through internal systems or through third-party services.)
		(Évaluation en temps réel) Source : Glossarv of Terms Used in NERC Reliability Standards
Receiving Balancing Authority		The Balancing Authority importing the Interchange. (Zone d'équilibrage réceptrice) Source : Glossary of Terms Used in NERC Reliability Standards
Regional Reliability Organization <sup>7</sup> (Regional Entity)	RRO	<ol> <li>An entity that ensures that a defined area of the Bulk Electric System is reliable, adequate and secure.</li> <li>A member of the North American Electric Reliability Council.</li> </ol>
		The Regional Reliability Organization can serve as The Compliance Monitor.

<sup>&</sup>lt;sup>7</sup> Note from Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF): The Regional Reliability Organization (Regional Entity) for Quebec is the Northeast Power Coordinating Council (NPCC).



Term	Acronym	Definition
		(Organisation régionale de fiabilité) (Entité régionale)
		Source : Glossary of Terms Used in NERC Reliability Standards
Regional Reliability Plan	RRP	The plan that specifies the Reliability Coordinators and Balancing Authorities within the Regional Reliability Organization, and explains how reliability coordination will be accomplished. (Plan de fiabilité régional) Source : Glossary of Terms Used in NERC Reliability Standards
Registered entity		Any legal entity listed in the "register identifying the entities that are subject to the reliability standards" approved by the Régie de l'énergie du Québec pursuant to section 85.13 of the Act respecting the Régie de l'énergie. (Entité visée) Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Register of Entities Subject to Reliability Rtandards		Document approved by the Régie de l'énergie identifying the entities subject to reliability standards, their functions and their facilities.
(Register of Entities)		(Registre des entités visées par les normes de fiabilité ) (Registre des entités visées ) Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)
Regulating Reserve		An amount of reserve responsive to Automatic Generation Control, which is sufficient to provide normal regulating margin. (Réserve réglante) Source : Glossary of Terms Used in NERC Reliability Standards
Regulation Reserve Sharing Group		A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply the Regulating Reserve required for all member Balancing Authorities to use in meeting applicable regulating standards. (Groupe de partage de réserve réglante) Source: Glossary of terms used in NERC Reliability Standards
Regulation Service		The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the ACE of another Balancing Authority. The Balancing Authority providing the response assumes the obligation of meeting all applicable control criteria as specified by NERC for itself and the Balancing Authority for which it is providing the Regulation Service. <b>(Service de régulation)</b> Source : Glossary of Terms Used in NERC Reliability Standards
Reliability Adjustment Arranged Interchange		A request to modify a Confirmed Interchange or Implemented Interchange for reliability purposes. (Échange convenu d'ajustement de fiabilité) Source: Glossary of Terms Used in NERC Reliability Standards
Reliability Adjustment RFI		Request to modify an Implemented Interchange Schedule for reliability purposes.



Term	Acronym	Definition
		(Ajustement d'une demande d'échange pour la fiabilité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reliability Coordinator	RC	Effective until September 30, 2021:
		The entity that is the highest level of authority who is responsible for the reliable operation of the Bulk Electric System, has the Wide Area view of the Bulk Electric System, and has the operating tools, processes and procedures, including the authority to prevent or mitigate emergency operating situations in both next-day analysis and real-time operations. The Reliability Coordinator has the purview that is broad enough to enable the calculation of Interconnection Reliability Operating Limits, which may be based on the operating parameters of transmission systems beyond any Transmission Operator's vision.
		<b>Effective on October 1, 2021:</b> The entity that is the highest level of authority who is responsible for the Reliable Operation of the Bulk Electric System, has the Wide Area view of the Bulk Electric System, and has the operating tools, processes and procedures, including the authority to prevent or mitigate emergency operating situations in both next-day analysis and real-time operations. The Reliability Coordinator has the purview that is broad enough to enable the calculation of Interconnection Reliability Operating Limits, which may be based on the operating parameters of transmission systems beyond any Transmission Operator's vision.
		(Coordonnateur de la fiabilité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reliability Coordinator Area		The collection of generation, transmission, and loads within the boundaries of the Reliability Coordinator. Its boundary coincides with one or more Balancing Authority Areas. (Zone de fiabilité) Source : Glossary of Terms Used in NERC Reliability Standards
Reliability Coordinator	RCIS	The system that Reliability Coordinators use to post messages
Information System		and share operating information in real time.
		(Système d'information des coordonnateurs de la fiabilité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reliability Standard		<b>Effective on October 1, 2021:</b> A requirement, approved by the United States Federal Energy Regulatory Commission under Section 215 of the Federal Power Act, or approved or recognized by an applicable governmental authority in other jurisdictions, to provide for Reliable Operation of the Bulk-Power System. The term includes requirements for



Term	Acronym	Definition
		the operation of existing Bulk-Power System facilities, including cybersecurity protection, and the design of planned additions or modifications to such facilities to the extent necessary to provide for Reliable Operation of the Bulk-Power System, but the term does not include any requirement to enlarge such facilities or to construct new transmission capacity or generation capacity. <b>(Norme de fiabilité)</b> Source :Glossary of Terms Used in NERC Reliability Standards
Reliable Operation		Effective on April 1, 2021: Operating the elements of the Bulk Power System within equipment and electric system thermal, voltage, and stability limits so that instability, uncontrolled separation, or cascading failures of such system will not occur as a result of a sudden disturbance, including a cybersecurity incident, or unanticipated failure of system elements. (Exploitation fiable)
Remedial Action Scheme	RAS	<ul> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> <li>A scheme designed to detect predetermined System conditions and automatically take corrective actions that may include, but are not limited to, adjusting or tripping generation (MW and Mvar), tripping load, or reconfiguring a System(s). RAS accomplish objectives such as: <ul> <li>Meet requirements identified in the NERC Reliability Standards;</li> <li>Maintain Bulk Electric System (BES) stability;</li> <li>Maintain acceptable BES voltages;</li> <li>Maintain acceptable BES power flows;</li> <li>Limit the impact of Cascading or extreme events.</li> </ul> </li> <li>The following do not individually constitute a RAS: <ul> <li>Protection Systems installed for the purpose of detecting Faults on BES Elements and isolating the faulted Elements</li> </ul> </li> <li>b. Schemes for automatic underfrequency load shedding (UFLS) and automatic undervoltage load shedding (UVLS) comprised of only distributed relays</li> <li>c. Out- of-step tripping and power swing blocking</li> <li>d. Automatic reclosing schemes</li> <li>e. Schemes applied on an Element for non-Fault conditions, such as, but not limited to, generator loss-of-field, transformer top-oil temperature, overvoltage, or overload to protect the Element against damage by removing it from service</li> </ul>



Term	Acronym	Definition
		<ul> <li>following: series or shunt reactive devices, flexible alternating current transmission system (FACTS) devices, phase-shifting transformers, variable-frequency transformers, or tap-changing transformers; and, that are located at and monitor quantities solely at the same station as the Element being switched or regulated</li> <li>g. FACTS controllers that remotely switch static shunt reactive devices located at other stations to regulate the output of a single FACTS device</li> <li>h. Schemes or controllers that remotely switch shunt reactors and shunt capacitors for voltage regulation that would otherwise be manually switched</li> <li>i. Schemes that automatically de-energize a line for a non-Fault operation when one end of the line is open</li> <li>j. Schemes that provide anti-islanding protection (e.g., protect load from effects of being isolated with generation that may not be capable of maintaining acceptable frequency and voltage)</li> <li>k. Automatic sequences that proceed when manually initiated solely by a System Operator</li> <li>l. Modulation of HVDC or FACTS via supplementary controls, such as angle damping or frequency damping applied to damp local or inter-area oscillations</li> <li>m. Sub-synchronous resonance (SSR) protection schemes that directly detect sub-synchronous quantities (e.g., currents or torsional oscillations)</li> <li>n. Generator control Such as, but not limited to, automatic generation control (AGC), generation excitation [e.g. automatic voltage regulation (AVR) and power system stabilizers (PSS)], fast valving, and speed governing.</li> <li>(Automatisme de réseau)</li> </ul>
Removable Media	RM	Storage media that (i) are not Cyber Assets, (ii) are capable of transferring executable code, (iii) can be used to store, copy, move or access data, and (iv) are directly connected for 30 consecutive calendar days or less to a BES Cyber Asset, a network within an ESP containing high or medium impact BES Cyber Systems, or a Protected Cyber Asset associated with high or medium impact BES Cyber Systems. Examples include, but are not limited to: floppy disks, compact disks, USB flash drives, external hard drives, and other flash memory cards/drives that contain nonvolatile memory.



Term	Acronym	Definition
		(Support de stockage amovible)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reportable Balancing		Effective on April 1, 2021:
Contingency Event		Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in ACE based on EMS scan rate data that results in a loss of MW output less than or equal to the Most Severe Single Contingency, and greater than or equal to the lesser amount of: (i) 80% of the Most Severe Single Contingency, or (ii) the amount listed below for the applicable Interconnection. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to the Regional Entity.
		Eastern Interconnection – 900 MW
		Western Interconnection – 500 MW
		• ERCOT – 800 MW
		• Quebec – 500 MW
		(Contingence d'équilibrage à déclarer)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reportable Cyber		Effective until September 30, 2022:
Security Incident		A Cyber Security Incident that has compromised or disrupted one or more reliability tasks of a functional entity.
		Effective on October 1, 2022:
		A Cyber Security Incident that compromised or disrupted:
		<ul> <li>A BES Cyber System that performs one or more reliability tasks of a functional entity;</li> </ul>
		<ul> <li>An Electronic Security Perimeter of a high or medium impact BES Cyber System; or</li> </ul>
		An Electronic Access Control or Monitoring System of a high or medium impact BES Cyber System.
		(Incident de cybersécurité à déclarer)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reportable Disturbance		Any event that causes an ACE change greater than or equal to
		80% of a Balancing Authority's or reserve sharing group's most
		severe contingency. The definition of a reportable disturbance is
		specified by each Regional Reliability Organization. This
		definition may not be retroactively adjusted in response to



Term	Acronym	Definition
		observed performance. (Perturbation à déclarer)
		Source : Glossary of Terms Used in NERC Reliability Standards
Reporting ACE		<b>Effective until June 30, 2021 :</b> The scan rate values of a Balancing Authority's Area Control Error (ACE) measured in MW, which includes the difference between the Balancing Authority's Net Actual Interchange and its Net Scheduled Interchange, plus its Frequency Bias obligation, plus any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction (ATEC).
		Reporting ACE is calculated as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME}$ Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{ATEC}$
		<ul> <li>Where:</li> <li>NI<sub>A</sub> (Actual Net Interchange) is the algebraic sum of actual megawatt transfers across all Tie Lines and includes</li> <li>Pseudo-Ties. Balancing Authorities directly connected via asynchronous ties to another Interconnection may include or exclude megawatt transfers on those Tie lines in their actual interchange, provided they are implemented in the same manner for Net Interchange Schedule.</li> <li>NI<sub>S</sub> (Scheduled Net Interchange) is the algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, with adjacent Balancing Authorities, and taking into account the effects of schedule ramps. Balancing Authorities directly connected via asynchronous ties to another Interconnection may include or exclude megawatt transfers on those Tie Lines in their scheduled Interchange, provided they are implemented in the same manner for Net Interchange Actual.</li> <li>B (Frequency Bias Setting) is the Frequency Bias Setting (in negative MW/0.1 Hz) for the Balancing Authority.</li> <li>10 is the constant factor that converts the frequency bias setting units to MW/Hz.</li> <li>F<sub>A</sub> (Actual Frequency) is 60.0 Hz, except during a time correction.</li> <li>I<sub>ME</sub> (Interchange Meter Error) is the meter error correction</li> </ul>



Term	Acronym	Definition
Term	Acronym	Definitionfactor and represents the difference between the integrated hourly average of the net interchange actual (NIA) and the cumulative hourly net Interchange energy measurement (in megawatt-hours).IATEC (Automatic Time Error Correction) is the addition of a component to the ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error. Automatic Time Error Correction is only applicable in the Western Interconnection. $I_{ATEC} = \frac{PII_{accum}^{on/off peak}}{(1-Y) \times H}$ when operating in Automatic Time Error Correction control mode. <i>IArec</i> shall be zero when operating in any other AGC mode.• Y = B / Bs.• H = Number of hours used to payback Primary Inadvertent Interchange energy. The value of H is set to 3.• Bs = Frequency Bias for the Interconnection (MW / 0.1 Hz).• Primary Inadvertent Interchange (PIIhourly) is $(1 - Y) \times (IIactual - B \times \Delta TE/6)$ • Ilactual is the hourly Inadvertent Interchange for the last hour.• $\Delta TE$ is the Alour - TEbegin hour - TDadj - (t) × (TEoffset)• TDadj is the Reliability Coordinator adjustment for differences with Interconnection Time Monitor control center clocks.• t is the number of minutes of Manual Time Error Correction that occurred during the hour.• TEoffset is 0.000 or +0.020 or -0.020.• PIIaccum is the Balancing Authority's accumulated PIIhourly in MWh. An On-Peak and Off-Peak accumulation accounting is required.
		Where: $PII_{accum}^{on/off \ peak}$ = last period's $PII_{accum}^{on/off \ peak}$ + PII <sub>hourly</sub> All NERC Interconnections with multiple Balancing Authorities
		operate using the principles of Tie-line Bias (TLB) Control and require the use of an ACE equation similar to the Reporting ACE



Term	Acronym	Definition
		<ul> <li>defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAs on an Interconnection and is(are) consistent with the following four principles will provide a valid alternative Reporting ACE equation consistent with the measures included in this standard.</li> <li>7. All portions of the Interconnection are included in one area or another so that the sum of all area generation, loads and losses is the same as total system generation, load and losses.</li> <li>8. The algebraic sum of all area Net Interchange Schedules and all Net Interchange actual values is equal to zero at all times.</li> <li>9. The use of a common Scheduled Frequency Fs for all areas at all times.</li> <li>10. The absence of metering or computational errors. (The inclusion and use of the IME term to account for known metering or computational errors.)</li> </ul> Effective on July 1, 2021 :
		The scan rate values of a Balancing Authority Area's (BAA) Area Control Error (ACE) measured in MW includes the difference between the Balancing Authority Area's Actual Net Interchange and its Schedule Net Interchange, plus its Frequency Bias Setting obligation, plus correction for any known meter error. In the Western Interconnection, Reporting ACE includes Automatic Time Error Correction (ATEC). Reporting ACE is calculated as follows: Reporting ACE = (NIA – NIs) – 10B (FA – Fs) – IME Reporting ACE is calculated in the Western Interconnection as follows: Reporting ACE = (NIA – NIs) – 10B (FA – Fs) – IME + IATEC Where: • NIA = Actual Net Interchange. • NIS = Scheduled Net Interchange. • B = Frequency Bias Setting. • FA = Actual Frequency. • Fs = Scheduled Frequency. • IME = Interchange Meter Error. • IATEC = Automatic Time Error Correction. All NERC Interconnections operate using the principles of Tie-
		line Bias (TLB) Control and require the use of an ACE equation



Term	Acronym	Definition
		<ul> <li>similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE equation that is(are) implemented for all BAAs on an Interconnection and is(are) consistent with the following four principles of Tie Line Bias control will provide a valid alternative to this Reporting ACE equation:</li> <li>1. All portions of the Interconnection are included in exactly one BAA so that the sum of all BAAs' generation, load, and loss is the same as total Interconnection generation, load, and loss;</li> <li>2. The algebraic sum of all BAAs' Scheduled Net Interchange is equal to zero at all times and the sum of all BAAs' Actual Net Interchange values is equal to zero at all times;</li> <li>3. The use of a common Scheduled Frequency Fs for all BAAs at all times; and,</li> <li>4. Excludes metering or computational errors. (The inclusion and use of the IME term corrects for known metering or computational errors.)</li> </ul>
Request for Interchange	RFI	Source: Glossary of terms used in NERC Reliability Standards A collection of data as defined in the NAESB Business Practice Standards submitted for the purpose of implementing bilateral interchange between Balancing Authorities or an energy transfer within a single Balancing Authority. (Demande d'échange) Source : Glossary of Terms Used in NERC Reliability Standards
Reserve Sharing Group	1	Effective until September 30, 2021: A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority's use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of Disturbance Control Performance, the Areas become a Reserve Sharing Group.
		A group whose members consist of two or more Balancing



Term	Acronym	Definition
		Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority's use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of disturbance control performance, the areas become a Reserve Sharing Group. (Groupe de partage des réserves) Source : Glossary of Terms Used in NERC Reliability Standards
Reserve Sharing Group Reporting ACE		<b>Effective until March 31, 2021:</b> At any given time of measurement for the applicable Regulation Reserve Sharing Group, the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the Regulation Reserve Sharing Group at the time of measurement.
		<b>Effective on April 1, 2021:</b> At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG at the time of measurement.
		(ACE déclaré de groupe de partage de réserve réglante ) ou (ACE déclaré de groupe de partage des réserves ) Source: Glossary of terms used in NERC Reliability Standards
Resource Planner	RP	Effective until September 30, 2021: The entity that develops a long-term (generally one year and beyond) plan for the resource adequacy of specific loads (customer demand and energy requirements) within a Planning Authority Area. Effective on October 1, 2021:
		The entity that develops a long-term (generally one year and beyond) plan for the resource adequacy of specific loads (customer demand and energy requirements) within a Planning Authority area.
		(Planificateur des ressources)



Term	Acronym	Definition
		Source : Glossary of Terms Used in NERC Reliability Standards
Response Rate		The Ramp Rate that a generating unit can achieve under normal operating conditions expressed in megawatts per minute (MW/Min). (Taux de réponse)
		Source : Glossary of Terms Used in NERC Reliability Standards
Right-of-Way	ROW	The corridor of land under a transmission line(s) needed to operate the line(s). The width of the corridor is established by engineering or construction standards as documented in either construction documents, pre-2007 vegetation maintenance records, or by the blowout standard in effect when the line was built. The ROW width in no case exceeds the applicable Transmission Owner's or applicable Generator Owner's legal rights but may be less based on the aforementioned criteria.
		(Emprise)
Sabotage		Source : Glossary of Terms Used in NERC Reliability Standards Malevolent act perpetrated in order to disturb operations or to interrupt them. (Sabotage)
Scenario		Source : Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF) Possible event. (Scénario) Source : Glossary of Terms Used in NERC Reliability Standards
Schedule		<ul> <li>(Verb) To set up a plan or arrangement for an Interchange Transaction.</li> <li>(Noun) An Interchange Schedule.</li> <li>(Programmer)(Programme)</li> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> </ul>
Scheduled Frequency		60.0 Hertz, except during a time correction. (Fréquence programmée) Source : Glossary of Terms Used in NERC Reliability Standards
Scheduled Net	NIs	
Interchange		Effective on July 1, 2021 : The algebraic sum of all scheduled megawatt transfers, including Dynamic Schedules, to and from all Adjacent Balancing Authority areas within the same Interconnection, including the effect of scheduled ramps. Scheduled megawatt transfers on asynchronous DC tie lines directly connected to another Interconnection are excluded from Scheduled Net Interchange. (Échange net programmé) Source : Glossary of Terms Used in NERC Reliability Standards
Scheduling Entity		An entity responsible for approving and implementing



Term	Acronym	Definition
		Interchange Schedules.
		(Entité responsable de la programmation)
		Source : Glossary of Terms Used in NERC Reliability Standards
Scheduling Path		The Point to Point Transmission Service arrangements reserved
		by the Purchasing-Selling Entity for a Transaction.
		(Chemin programmé)
		Source : Adapted by Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)from the
		Glossary of Terms Used in NERC Reliability Standards
Sending Balancing		The Balancing Authority exporting the Interchange.
Authority		(Zone d'équilibrage expéditrice)
		Source : Glossary of Terms Used in NERC Reliability Standards
Sink Balancing		The Balancing Authority in which the load (sink) is located for an
Authority		Interchange Transaction and any resulting Interchange
		Schedule.
		(Responsable de l'équilibrage consommateur)
		Source : Glossary of Terms Used in NERC Reliability Standards
Source Balancing		The Balancing Authority in which the generation (source) is
Authority		located for an Interchange Transaction and for any resulting
		Interchange Schedule.
		(Responsable de l'équilibrage producteur)
		Source : Glossary of Terms Used in NERC Reliability Standards
Special Protection	SPS	See "Remedial Action Scheme".
System		(Automatisme de réseau)
(Remedial Action Scheme)		Source : Glossary of Terms Used in NERC Reliability Standards
Spinning Reserve		Unloaded generation that is synchronized and ready to serve
1 5		additional demand.
		(Réserve tournante)
		Source : Glossary of Terms Used in NERC Reliability Standards
Stability		The ability of an electric system to maintain a state of equilibrium
-		during normal and abnormal conditions or disturbances.
		(Stabilité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Stability Limit		The maximum power flow possible through some particular point
		in the system while maintaining stability in the entire system or
		the part of the system to which the stability limit refers.
		(Limite de stabilité)
		Source : Glossary of Terms Used in NERC Reliability Standards
Supervisory Control and	SCADA	A system of remote control and telemetry used to monitor and
Data Acquisition		control the transmission system.
		(Télésurveillance et acquisition de données)
		Source : Glossary of Terms Used in NERC Reliability Standards



Term	Acronym	Definition
Supplemental Regulation Service		A method of providing regulation service in which the Balancing Authority providing the regulation service receives a signal representing all or a portion of the other Balancing Authority's ACE. (Service supplémentaire de régulation) Source : Glossary of Terms Used in NERC Reliability Standards
Surge		A transient variation of current, voltage, or power flow in an electric circuit or across an electric system. (Variation transitoire) Source : Glossary of Terms Used in NERC Reliability Standards
Sustained Outage		The deenergized condition of a transmission line resulting from a fault or disturbance following an unsuccessful automatic reclosing sequence and/or unsuccessful manual reclosing procedure. (Déclenchement définitif) Source : Glossary of Terms Used in NERC Reliability Standards
System		A combination of generation, transmission, and distribution components. (Réseau) Source : Glossary of Terms Used in NERC Reliability Standards
System Operating Limit	SOL	<ul> <li>Effective until September 30, 2021: The value (such as MW, MVar, Amperes, Frequency or Volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria. System Operating Limits are based upon certain operating criteria. These include, but are not limited to:</li> <li>Facility Ratings (Applicable pre- and post-Contingency equipment or facility ratings)</li> <li>Transient Stability Rating (Applicable pre- and post-Contingency Stability Limits)</li> <li>Voltage Stability Ratings (Applicable pre- and post-Contingency Voltage Stability)</li> <li>System Voltage Limits (Applicable pre- and post-Contingency Voltage Limits)</li> </ul>
		<b>Effective on October 1, 2021:</b> The value (such as MW, Mvar, amperes, frequency or volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria. System Operating Limits are based upon certain operating criteria. These include, but are not limited



Term	Acronym	Definition
		<ul> <li>to:</li> <li>Facility Ratings (applicable pre- and post-Contingency Equipment Ratings or Facility Ratings)</li> <li>transient stability ratings (applicable pre- and post- Contingency stability limits)</li> <li>voltage stability ratings (applicable pre- and post- Contingency voltage stability)</li> <li>system voltage limits (applicable pre- and post-Contingency voltage limits)</li> <li>(Limite d'exploitation du réseau)</li> </ul>
		Source : Glossary of Terms Used in NERC Reliability Standards
System Operator		An individual at a Control Center of a Balancing Authority, Transmission Operator, or Reliability Coordinator, who operates or directs the operation of the Bulk Electric System (BES) in Real-time. (Répartiteur)
Telemetering		Source : Glossary of Terms Used in NERC Reliability Standards
relemetering		The process by which measurable electrical quantities from substations and generating stations are instantaneously transmitted to the control center, and by which operating commands from the control center are transmitted to the substations and generating stations. (Télémesure)
The second De Care		Source : Glossary of Terms Used in NERC Reliability Standards
Thermal Rating		The maximum amount of electrical current that a transmission line or electrical facility can conduct over a specified time period before it sustains permanent damage by overheating or before it sags to the point that it violates public safety requirements. (Courant thermique assigné) Source : Glossary of Terms Used in NERC Reliability Standards
Tie Line		A circuit connecting two Balancing Authority Areas. (Ligne d'interconnexion) Source : Glossary of Terms Used in NERC Reliability Standards
Tie Line Bias		A mode of Automatic Generation Control that allows the Balancing Authority to 1.) maintain its Interchange Schedule and 2.) respond to Interconnection frequency error. (Conditionnement par ligne d'interconnexion) Source : Glossary of Terms Used in NERC Reliability Standards
Time Error		The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. Time error is caused by the accumulation of Frequency Error over a given



Term	Acronym	Definition
		period. (Écart de temps)
TLR (Transmission Loading Relief) Log (NERC added the spelled out term for TLR Log for clarification purposes.)		Source : Glossary of Terms Used in NERC Reliability Standards Report required to be filed after every TLR Level 2 or higher in a specified format. The NERC IDC prepares the report for review by the issuing Reliability Coordinator. After approval by the issuing Reliability Coordinator, the report is electronically filed in a public area of the NERC Web site. (Registre TLR) Source : Glossary of Terms Used in NERC Reliability Standards
Total Flowgate Capability	TFC	The maximum flow capability on a Flowgate, is not to exceed its thermal rating, or in the case of a flowgate used to represent a specific operating constraint (such as a voltage or stability limit), is not to exceed the associated System Operating Limit. (Capacité totale d'une interface de transit) Source : Glossary of Terms Used in NERC Reliability Standards
Total Internal Demand		The Demand of a metered system, which includes the Firm Demand, plus any controllable and dispatchable DSM Load and the Load due to the energy losses incurred within the boundary of the metered system. (Demande interne totale) Source : Glossary of Terms Used in NERC Reliability Standards
Total Transfer Capability	ттс	The amount of electric power that can be moved or transferred reliably from one area to another area of the interconnected transmission systems by way of all transmission lines (or paths) between those areas under specified system conditions. (Capacité totale de transfert) (Capacité de transfert totale) <sup>8</sup> Source : Glossary of Terms Used in NERC Reliability Standards
Transaction		See Interchange Transaction. (Transaction) Source : Glossary of Terms Used in NERC Reliability Standards
Transfer Capability		The measure of the ability of interconnected electric systems to move or transfer power in a reliable manner from one area to another over all transmission lines (or paths) between those areas under specified system conditions. The units of transfer capability are in terms of electric power, generally expressed in megawatts (MW). The transfer capability from "Area A" to "Area B" is not generally equal to the transfer capability from "Area B" to "Area A." (Capacité de transfert) Source : Glossary of Terms Used in NERC Reliability Standards

<sup>&</sup>lt;sup>8</sup> Term used in the French version of the document « Tarifs et conditions des services de transport d'Hydro-Québec ».



Term	Acronym	Definition
Transfer Distribution Factor		See Distribution Factor. (Facteur de répartition du transport) Source : Glossary of Terms Used in NERC Reliability Standards
Transient Cyber Asset	TCA	<ul> <li>Source : Glossary of Terms Used in NERC Reliability Standards</li> <li>Effective until September 30, 2021:         <ul> <li>A Cyber Asset that is (i) capable of transmitting or transferring executable code, (ii) not included in a BES Cyber System, (iii) not a Protected Cyber Asset (PCA) associated with high or medium impact BES Cyber Systems, and (iv) is directly connected (e.g., using Ethernet, serial, Universal Serial Bus, or wireless, including near field or Bluetooth communication) for 30 consecutive calendar days or less to a BES Cyber Asset, a network within an ESP containing high or medium impact BES Cyber Systems, or a PCA associated with high or medium impact BES Cyber Systems. Examples include, but are not limited to, Cyber Assets used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.</li> </ul> </li> <li>Effective on October 1, 2021:         <ul> <li>A Cyber Asset that is :                 <ul> <li>capable of transmitting or transferring executable code,</li> <li>not included in a BES Cyber System,</li> <li>not a Protected Cyber Asset (PCA) associated with high or medium impact BES Cyber Asset, an etwork within an ESP containing high or medium inpact BES Cyber Asset,</li> <li>not included in a BES Cyber System,</li> <li>not a Protected Cyber Asset (PCA) associated with high or medium impact BES Cyber Asset,</li> <li>is directly connected (e.g., using Ethernet, serial, Universal Serial Bus, or wireless, including near field or Bluetooth communication) for 30 consecutive calendar days or less to a:</li></ul></li></ul></li></ul>
		Cyber Systems. Examples include, but are not limited to, Cyber Assets used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.
		(Actif électronique temporaire) (Actif électronique transitoire) Source : Glossaire des termes en usage dans les normes de fiabilité (NERC)
Transmission		An interconnected group of lines and associated equipment for the movement or transfer of electric energy between points of supply and points at which it is transformed for delivery to customers or is delivered to other electric systems.



Term	Acronym	Definition
		(Transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Constraint		A limitation on one or more transmission elements that may be reached during normal or contingency system operations. (Contrainte de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Customer		Effective until September 30, 2021:
		<ol> <li>Any eligible customer (or its designated agent) that can or does execute a transmission service agreement or can or does receive transmission service.</li> <li>Any of the following responsible entities: Generator Owner, Load-Serving Entity, or Purchasing-Selling Entity.</li> </ol>
		Effective on October 1, 2021.
		<ol> <li>Effective on October 1, 2021:</li> <li>Any eligible customer (or its designated agent) that can or does execute a Transmission Service agreement or can or does receive Transmission Service.</li> <li>Any of the following entities: Generator Owner, Load-Serving Entity, or Purchasing-Selling Entity.</li> </ol>
		(Client d'un service de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Line		A system of structures, wires, insulators and associated hardware that carry electric energy from one point to another in an electric power system. Lines are operated at relatively high voltages varying from 69 kV up to 765 kV, and are capable of transmitting large quantities of electricity over long distances. (Ligne de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Operator	ТОР	<b>Effective until September 30, 2021:</b> The entity responsible for the reliability of its "local" transmission system, and that operates or directs the operations of the transmission facilities.
		Effective on October 1, 2021:
		The entity responsible for the reliability of its "local" transmission system, and that operates or directs the operations of the transmission Facilities.
		(Exploitant de réseau de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Operator Area		The collection of Transmission assets over which the Transmission Operator is responsible for operating.



Term	Acronym	Definition
		(Zone de l'exploitant de réseau de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Owner	то	Effective until September 30, 2021:
		The entity that owns and maintains transmission facilities.
		Effective on October 1, 2021:
		The entity that owns and maintains transmission Facilities.
		(Propriétaire d'installation de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Planner	TP	Effective until September 30, 2021:
		The entity that develops a long-term (generally one year and
		beyond) plan for the reliability (adequacy) of the interconnected
		bulk electric transmission systems within its portion of the
		Planning Authority Area.
		Effective on October 1, 2021:
		The entity that develops a long-term (generally one year and
		beyond) plan for the reliability (adequacy) of the interconnected
		bulk electric transmission systems within its portion of the
		Planning Authority area.
		(Planificateur de réseau de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Reliability	TRM	The amount of transmission transfer capability necessary to
Margin		provide reasonable assurance that the interconnected
		transmission network will be secure. TRM accounts for the
		inherent uncertainty in system conditions and the need for
		operating flexibility to ensure reliable system operation as system
		conditions change
		(Marge de fiabilité de transport) (Marge de fiabilité du réseau) <sup>9</sup>
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Reliability	TRMID	A document that describes the implementation of a Transmission
Margin Implementation		Reliability Margin methodology, and provides information related
Document		to a Transmission Operator's calculation of TRM.
		(Document de mise en oeuvre de la marge de fiabilité de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Service		Services provided to the Transmission Customer by the
		Transmission Service Provider to move energy from a Point of
		Receipt to a Point of Delivery.
		Receipt to a Point of Delivery.

<sup>&</sup>lt;sup>9</sup> Term used in the French version of the document « Tarifs et conditions des services de transport d'Hydro-Québec ».



Term	Acronym	Definition
		Source : Glossary of Terms Used in NERC Reliability Standards
Transmission Service	TSP	Effective until September 30, 2021:
Provider		The entity that administers the transmission tariff and provides
		Transmission Service to Transmission Customers under
		applicable transmission service agreements.
		Effective on October 1, 2021:
		The entity that administers the transmission tariff and provides
		Transmission Service to Transmission Customers under
		applicable Transmission Service agreements.
		(Fournisseur de service de transport)
		Source : Glossary of Terms Used in NERC Reliability Standards
Undervoltage Load	UVLS	An automatic load shedding program, consisting of distributed
Shedding Program		relays and controls, used to mitigate undervoltage conditions
		impacting the Bulk Electric System (BES), leading to voltage
		instability, voltage collapse, or Cascading. Centrally controlled
		undervoltage-based load shedding is not included.
		(Programme de DST)
		Source : Glossary of Terms Used in NERC Reliability Standards
Vegetation		All plant material, growing or not, living or dead.
		(Végétation)
Vegetation Inspection		Source : Glossary of Terms Used in NERC Reliability Standards The systematic examination of vegetation conditions on a Right-
vegetation inspection		of-Way and those vegetation conditions under the applicable
		Transmission Owner's or applicable Generator Owner's control
		that are likely to pose a hazard to the line(s) prior to the next
		planned maintenance or inspection. This may be combined with
		a general line inspection.
		(Surveillance de la végétation)
		Source : Glossaire des termes en usage dans les normes de fiabilité (NERC)
Wide Area		The entire Reliability Coordinator Area as well as the critical flow
		and status information from adjacent Reliability Coordinator
		Areas as determined by detailed system studies to allow the
		calculation of Interconnected Reliability Operating Limits.
		(Zone étendue)
		Source : Glossary of Terms Used in NERC Reliability Standards
Year One		The first twelve month period that a Planning Coordinator or a
		Transmission Planner is responsible for assessing. For an
		assessment started in a given calendar year, Year One includes
		the forecasted peak Load period for one of the following two
		calendar years. For example, if a Planning Assessment was
		started in 2011, then Year One includes the forecasted peak



Term	Acronym	Definition
		Load period for either 2012 or 2013. (Année un)
		Source : Glossary of Terms Used in NERC Reliability Standards



### 3. INDEX OF FRENCH TERMS AND ACRONYMS

### Α

Accès distant interactif28 ACE	
ACE déclaré	
ACE déclaré de groupe de partage de réserve	
réglante55	
ACE déclaré de groupe de partage des réserves	
Actif électronique BES9	
Actif électronique temporaire61	
Actif électronique transitoire61	
Actifs électroniques	
Actifs électronqiues protégés42	
Adéquation	
AEC 7	
AFC7	
AGC	
AGC6 Ajustement d'une demande d'échange pour la	
AGC	•

#### В

ВА	8
BES	10
BPS	12

### С

Capacité de transfert totale	60
Capacité disponible d'une interface de transit	7
Capacité réofferte Capacité totale d'une interface de transit	41
Capacité totale d'une interface de transit	60
Capacité totale de transfert	60
Caractéristiques assignées	
Caractéristiques assignées d'un équipement	23
Caractéristiques assignées d'une installation	24
Caractéristiques assignées en situation d'urgen	ce
	23
Caractéristiques assignées en situation normale	
СВМ	
CBMID	
CEA	
Centre de contrôle	
Charge	
Charge de base	9
Charge interruptible	31
Charge locale	
Charge répartie par poste	19
Chemin de démarrage	
Chemin programmé	57
Chemin réservé	
Circonstance CIP exceptionnelle	14
Client d'un service de transport	62
Cogénération	14
Communication interpersonnelle	31
Communication interpersonnelle de rechange	4
Compensation en fréquence	25
Conditionnement par ligne d'interconnexion	
Conditions d'exploitation électriques assignées	44
Connectivité externe routable	
Connectivité par lien commuté	19
Consigne de répartition	19
Contingence	
Contingence d'équilibrage	
Contingence d'équilibrage à déclarer	
Contingence simple la plus grave	
Contournement électrique	24
Contrainte de transport	
Convention de service de transport type	
Coordonnateur de la fiabilité	
Coordonnateur de la planification	
Correction de l'écart de temps automatique	
Courant thermique assigné	
CPS	17



### D

19
21
58
14
23
14
24
40
19
54
23
40
24
60
31
26
20
13
33
20
21
8
63
13
28
20
19

## Ε

EACMS	22
EAP	22
Écart de fréquence	26
Écart de réglage de la zone	5
Écart de temps	60
Échange	28
Échange net programmé	
Échange confirmé	15
Échange confirmé composite	15
Échange convenu	5
Échange convenu d'ajustement de fiabilité.	46
Échange involontaire	28
Échange mis en oeuvre	
Échange net réel	
-	

Échange programmé net	35
Échange réel net	34
Élément	
Élément limiteur	31
Élimination normale d'un défaut	35
Élimination retardée d'un défaut	
Emprise	56
En pointe	
Énergie disponible nette	35
Énergie électrique	22
Engagements de transport en vigueur	23
Entente	4
Entité régionale	46
Entité responsable de la programmation	57
Entité visée	46
Équipement de surveillance des perturbations	21
Erreur de comptage d'échange	
ESP	22
ETC	23
Étiquette	29
Étiquette de transaction d'échange	29
Étude de coordination des systèmes de protect	ion
Évaluation de la planification	40
Évaluation de vulnérabilité aux perturbations	
géomagnétiques	27
Évaluation de vulnérabilité aux PGM	27
Évaluation en temps réel	
Exigences de délivrance d'un permis de central	e
nucléaire	36
Exigences relatives à l'interface de centrale	
nucléaire	
Exploitant d'installation de production	
Exploitant de centrale nucléaire	
Exploitant de réseau de transport	
Exploitation fiable	48

#### F

FA	2
Facteur de changement de charge	. 32
Facteur de changement de la production	. 27
Facteur de correction en fonction de l'altitude	5
Facteur de répartition	. 20
Facteur de répartition de puissance	. 41
Facteur de répartition du transport	. 61
Facteur de répartition en cas de panne	. 39
Facteur de répartition production-charge	. 27
Facteurs de participation	. 40
Filtre antirepliement	5
Fonctionnement incorrect	. 34



Fournisseur de service de transport	64
Fréquence programmée	
Fréquence réelle	2
FRM	26
FR0	26
FRSG	26

#### G

GCIR       2         Gestion de la demande       1         Gestion des charges modulables       1         GLDF       2         GO       2         GOP       2         Groupe de partage de la réponse en fréquence.2         Groupe de partage de réserve réglante       4         Groupe de partage des réserves       5	99777665
Groupe de partage des reserves	

#### Η

Heure civile	14
Horizon de planification du transport à c	ourt terme
	34
Horizon de planification du transport à la	ong terme
· · · · · · · · · · · · · · · · · · ·	
Hors pointe	36

#### I

#### IA 29 Іатес......6 IDC......29 Impact négatif sur la fiabilité ......4 Incident de cybersécurité ......18 Incident de cybersécurité à déclarer......50 Indisponibilité forcée ......25 Information de système électronique BES ......9 Installation ......24 Installation contrainte ......16 Instruction d'exploitation......37 Interface de transit ......25

#### L

Ligne d'interconnexion	
Ligne de transport	62
Limite d'exploitation du réseau	59
Limite d'exploitation pour la fiabilité de	
l'Interconnexion	30
Limite de stabilité	57
Logiciel de calcul de la répartition des écu	hanges
LSE	
LSF	31

#### М

Marge bénéficiaire de capacité	13
Marge de fiabilité de transport	63
Marge de fiabilité du réseau	63
Marge de partage de capacité	13
Mesure de la réponse en fréquence	26
Méthodologie des interfaces de transit	
Méthodologie par chemin de transport spécific	jue
	44
Méthodologie selon les échanges entre zones	5
Mettre à risque	13
MSSC	34
MVCD	32

#### Ν

Négociant	43
NEL	
NIA	
NIs	
Niveau de fiabilité adéquat	
Niveau de fiabilité adéquat pour l'Interconn	
du Québec	
Niveau de fiabilité recherché	
Niveau de fiabilité recherché pour l'Intercol	
du Québec	
Non raccordé au RTP	
Norme de contrôle en régime perturbé	
Norme de fiabilité	
Norme de performance du réglage	17
NPIRs	
NPLRs	
NUC OP	



OASIS	
OATT	
Obligation de réponse en fréquence	26
OPA	
Organisation régionale de fiabilité	46
OTDF	39

#### Ρ

PA	
PACS	
PC	.41
PCA	
Périmètre de sécurité électronique	.22
Périmètre de sécurité physique	
Période de rétablissement après contingence	.16
Période de rétablissement de la réserve pour	
contingence Personnel de soutien à l'exploitation	.16
Personnel de soutien à l'exploitation	.39
Perte de charge non subordonnée	.35
Perte de charge subordonnée	.15
Perturbation	.21
Perturbation à déclarer	
Plan d'actions correctives	.17
Plan d'exploitation	.37
Plan de fiabilité régional	.46
Planificateur de réseau de transport	.63
Planificateur des ressources	
POD	
Point d'accès électronique	.22
Point de livraison	
Point de réception	
POR	
Procédure d'exploitation	
Processus d'exploitation	
Producteur indépendant	
Programme	.56
Programme d'échange	
Programme d'échange dynamique	
Programme d'entretien des systèmes de	
protection	.43
protection Programme de DST	.64
Programme dynamique	
Programmer	
Propriétaire d'installation de production	.27
Propriétaire d'installation de transport	
PSE	
Pseudo-interconnexion	
	0

#### Reliability Coordinator in Québec

PSMP	
PSP	
PTDF	41
PTP	
Puissance active	
Puissance réactive	44

### Q

Quantité de services de transport déjà engagés23

#### R

Raccordé au RTP	15
Rampe	
Rapport de gestion des congestions	
RAS	
RC	
RCIS	
Réduction	
Registre des entités visées	
Registre des entités visées par les normes de	10
fiabilité	46
Registre TLR	
Réglage automatique de la production	
Réglage conjoint	
Réglage de la compensation en fréquence	25
Réglage de la fréquence	
Répartiteur	
Répartition optimale de la production	
Répartition par blocs	
Réponse en fréquence	
Réseau	
Réseau "Bulk"	
Réseau de transport principal	
Réseau interconnecté d'Amérique du Nord	
Réserve arrêtée	
Réserve d'exploitation	
Réserve d'exploitation supplémentaire	
Réserve d'exploitation synchronisée	
Réserve pour contingence	
Réserve réglante	
Réserve tournante	
Responsable de l'approvisionnement	32
Responsable de l'équilibrage	
Responsable de l'équilibrage - hôte	
Responsable de l'équilibrage adjacent	
Responsable de l'équilibrage délégant	
Responsable de l'équilibrage délégataire	6
Responsable de l'équilibrage adjacent Responsable de l'équilibrage consommateur Responsable de l'équilibrage délégant	4 57 34



Responsable de l'équilibrage intermédiaire .	31
Responsable de l'équilibrage producteur	57
Responsable de la planification	40
Responsable de la surveillance de l'applicati	ion
des normes de fiabilité	
Responsable de la surveillance de la confort	mité
	15
Responsable des échanges	29
Ressource à démarrage autonome	
Ressources de production décentralisées	20
RFI	
Risque d'incendie	24
RM	
ROW	
RP	55
RR0	45
RRP	46
RTA	44
RTP	32

# S

Sabotage	.56
Salle de commande	.17
SCADA	.57
Scénario	.56
Service de régulation	.46
Service de transport	.63
Service de transport de point à point	.41
Service de transport en réseau intégré	.35
Service de transport ferme	.24
Service de transport non ferme	.35
Service étendu de régulation	
Service supplémentaire de régulation	.58
Services complémentaires	5
Services d'exploitation en réseaux interconnect	tés
·	
Seuil de réduction des transactions	.18
SOL	.58
SPS	.57
Stabilité	
Support de stockage amovible	.50
Surveillance de la végétation	
Système d'information des coordonnateurs de	la
	.47
Système d'information et de réservation des	
capacités de transport	.37
Système de production-transport d'électricité	.12
Système de protection	.42
Système de protection combiné	.15
Système électrique interconnecté	.13

#### Reliability Coordinator in Québec

Système électronique BES	9
Système intermédiaire	
Systèmes de contrôle des accès physiques	40
Systèmes de contrôle ou de surveillance des	
accès électronique	22
•	

### T

Tarifs et conditions des services de transport 3	37
	43
	56
ТСА	51
	59
Télésurveillance et acquisition de données 5	57
Temps réel	
Tension d'exploitation	
TFC	60
ΤΟ	
ТОР	62
ТР	
Transaction	
Transaction d'échange 2	
Transfert dynamique	
Transport	
TRM	
	63
TSP 6	34
ΤΤС	
$T_{v}$ de limite d'exploitation pour la fiabilité de	
l'Interconnexion	31

### U

Urgence	. 23
UVLS	. 64

#### V

Valeur de l'ACE avant déclaration de la	
contingence	41
Variation transitoire	58
Végétation	64

### Ζ

Zone d'équilibrage	8
Zone d'équilibrage expéditrice	
Zone d'équilibrage réceptrice	45



Zone de fiabilité ......47 Zone de l'exploitant de réseau de transport ......63 Zone étendue...... 64



### 4. VERSION HISTORY

Date	Action / Modifications	Decision
June 23, 2015	Initial adoption	D-2015-098
December 9, 2015	Retirement of the definition "Blackstart Capability Plan" Replacement of the definition "Blackstart Resource" in the French version	D-2015-198
July 29, 2016	Added 15 new definitions : "BES Cyber Asset" "BES Cyber System" "BES Cyber System Information" "CIP Exceptional Circumstance" "CIP Senior Manager" "CIP Senior Manager" "Control Center" "Dial-up Connectivity" "Electronic Access Control or Monitoring Systems" "Electronic Access Point" "Electronic Access Point" "Electronic Access Point" "External Routable Connectivity" "Interactive Remote Access" "Interractive Remote Access" "Intermediate System" "Physical Access Control Systems" "Protected Cyber Assets" "Reportable Cyber Security Incident" Modified four definitions: "Cyber Asset" "Cyber Asset" "Electronic Security Parameters" "Physical Security Perimeter" Retired two definitions : "Critical Asset" "Critical Cyber Asset"	D-2016-119
September 30, 2016	Added the definition "Protection System Maintenance Program" Modified the definition "Protection System"	D-2016-150



Date	Action / Modifications	Decision
December 22, 2016	Added the following definitions:	D-2016-195
	Alternative Interpersonal Communication	
	Compliance Enforcement Authority	
	Interpersonnal Communications	
	Minimum Vegetation Clearance Distance	
	Operating Instruction	
	Operations Support Personnel	
	Modified the following definitions :	
	Right-of-way	
	System Operator	
	Vegetation Inspection	



Date	Action / Modifications	Decision
February 3, 2017	Added the following definitions:	D-2017-012
	Regulation Reserve Sharing Group	
	Reserve Sharing Group Reporting ACE	
	Reporting ACE	
	Frequency Response Measure	
	Frequency Response Obligation	
	Frequency Response Sharing Group	
	Reliability Adjustment Arranged Interchange	
	Composite Confirmed Interchange	
	Attaining Balancing Authority	
	Native Balancing Authority	
	Modified the following definitions :	
	Interconnection	
	Frequency Bias Setting	
	Dynamic Interchange Schedule or Dynamic Schedule	
	Pseudo-Tie	
	Request for Interchange	
	Arranged Interchange	
	Confirmed Interchange	
	Adjacent Balancing Authority	
	Intermediate Balancing Authority	
	Sink Balancing Authority	
	Source Balancing Authority	
	Operational Planning Analysis	
February 14, 2017	Added the following definitions:	D-2017-015
	Undervoltage Load Shedding Program	
	Composite Protection System	
	Modified the following definitions :	
	Misoperation	
	Energy Emergency	
	Remedial Action Scheme	



Date	Action / Modifications	Decision
June 16, 2017	Modified the following definitions :	D-2017-061
	Operational Planning Analysis	
	Real-time Assessment	
September 27, 2017	Added the following definitions:	D-2017-110
	Generation connected to the RTP	
	Generation not connected to the RTP	
	Year One	
	Near-Term Transmission Planning Horizon	
	Bus-tie Breaker	
	Consequential Load Loss	
	Long-Term Transmission Planning Horizon	
	Non-Consequential Load Loss	
	Planning Assessment	
October 31 <sup>st</sup> , 2017	Added the following definitions:	D-2017-117
	Low Impact BES Cyber System Electronic Access Point	
	Low Impact External Routable Connectivity	
	Removable Media	
	Transient Cyber Asset	
	Modified the following definitions :	
	BES Cyber Asset	
	Protected Cyber Asset	
September 18, 2018	Added the following definitions:	D-2018-130
	Connected to the RTP	
	Not connected to the RTP	
	Withdrew the following definitions :	
	Generation connected to the RTP	
	Generation not connected to the RTP	



Date	Action / Modifications	Decision
March 15, 2019	Modification to section 1.	D-2019-033
	Modified the following definitions:	
	Removable Media	
	Transient Cyber Asset	
	Low Impact BES Cyber System Electronic Access Point	
	Low Impact External Routable Connectivity	
April 3, 2019	Withdrew the following definitions :	D-2019-043
	Low Impact BES Cyber System Electronic Access Point	
	Low Impact External Routable Connectivity	
	Withdrew the expired definitions for the following terms:	
	Removable Media	
	Transient Cyber Asset	
November 5, 2019	Withdrew the following definition :	D-2019-139
	Time Error Correction	
November 22, 2019	Modification to CEA definition.	D-2019-158
December 19, 2019	Added the following definition:	D-2019-178
	Total Internal Demand	
	Modified the following definition:	
	Demand-Side Management	
June 3, 2020	Added the following definitions:	D-2020-066
	Adequate Level of Reliability	
	Adequate Level of Reliability for the Québec Interconnection	





Date	Action / Modifications	Decision
June 8, 2020	Added the following definitions:	D-2020-067
	Balancing Contingency Event	
	Most Severe Single Contingency	
	Reportable Balancing Contingency Event	
	Contingency Event Recovery Period	
	Contingency Reserve Restoration Period	
	Pre-Reporting Contingency Event ACE Value	
	Actual Frequency	
	Interchange Meter Error	
	Automatic Time Error Correction	
	Actual Net Interchange	
	Scheduled Net Interchange	
	Reliable Operation	
	Modified the following definitions:	
	Reserve Sharing Group Reporting ACE	
	Contingency Reserve	
	Reporting ACE	
	Automatic Generation Control	
	Pseudo-Tie	
	Balancing Authority	
	Bulk Power System	
September 10, 2020	Modified the following definitions:	D-2020-118
	Cyber Security Incident	
	Remedial Action Scheme	
	Reportable Cyber Security Incident	
	Protection System	
October 8, 2020	Added the following definitions:	D-2020-131
	Dispersed Power Producing Resources	
	North American Interconnected Power System	
	Modified the following definitions:	
	Bulk Electric System	
	Special Protection System	



Date	Action / Modifications	Decision
December 11, 2020	Modified the following definitions:	D-2020-167
	Protection System Maintenance Program	
	Retired the following definitions:	
	Special Protection System Type I	
	Special Protection System Type II	
February 17, 2021	Added the following definitions:	D-2021-015
	Geomagnetic Disturbance Vulnerability Assessment or GMD Vulnerability Assessment	
	Reactive Power	
	Real Power	
May 28, 2021	Added the following definitions:	D-2021-069
	Electrical Energy	
	Institute of Electrical and Electronics Engineers, Inc. (IEEE)	
	Reliability Standard	
	Modified the following definitions:	
	Blackstart Resource	
	Cascading	
	Cyber Assets	
	Demand	
	Distribution Provider	
	Electronic Access Control or Monitoring Systems	
	Element	
	External Routable Connectivity	
	Generator Operator	
	Generator Owner	
	Interchange Authority	
	Interconnected Operations Service	
	Interconnection	
	Interconnection Reliability Operating Limit	
	Load-Serving Entity	
	Minimum Vegetation Clearance Distance	
	Planning Authority	
	Point of Receipt	



Date	Action / Modifications	Decision
	Real-time Assessment	
	Reliability Coordinator	
	Reserve Sharing Group	
	Resource Planner	
	System Operating Limit	
	TLR Log	
	Transient Cyber Asset	
	Transmission Customer	
	Transmission Operator	
	Transmission Owner	
	Transmission Planner	
	Transmission Service Provider	
	Retired the following definitions:	
	ATC Path	
	Business Practices	
	Reallocation	
May 28, 2021	Modified the following definitions:	D-2021-070 and
	Operational Planning Analysis	D-2021-070R
	Real-time Assessment	
March 22, 2022	Modified the following definitions:	D-2021-126
	Actual Net Interchange	D-2022-039
	Scheduled Net Interchange	
	Added the following definitions:	
	Net Actual Interchange	
	Net Scheduled Interchange	
September 1, 2022	Added the following definition:	D-2022-108
	Protection System Coordination Study	
<u>Month XX,</u> <del>2022</del> January 5, 2023	The Direction – Contrôle des mouvements d'énergie (HQT) changed to Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF).Replacement of any reference to the "Direction – Contrôle des mouvements d'énergie (HQT)" or "Québec's Reliability Coordinator" to "Hydro-Québec, Coordonnateur de la fiabilité au Québec (HQCF)"	D-2022-XXX146