

Glossary of Terms Used in NERC Reliability Standards

Updated February 27, 2026

This Glossary lists each term that was defined for use in one or more of NERC's continent-wide or Regional Reliability Standards and adopted by the NERC Board of Trustees from February 8, 2005, through February 27, 2026.

This reference is divided into the following sections:

[Subject to Enforcement](#)

[Pending Enforcement](#)

[Filed and Pending Regulatory Approval](#)

Regional Definitions

- [NPCC](#)
- [ReliabilityFirst](#)
- [Texas RE](#)
- [WECC](#)

[Change History](#)

The first three sections identify all terms that have been adopted by the NERC Board of Trustees for use in continent-wide standards; the Regional definitions section identifies all terms that have been adopted by the NERC Board of Trustees for use in regional standards.

Most of the terms identified in this glossary were adopted as part of the development of NERC's initial set of reliability standards, called the "Version 0" standards. Subsequent to the development of Version 0 standards, new definitions have been developed and approved per NERC's Reliability Standards Development Process, and added to this glossary following board adoption, FERC filing, and final Order approving the definition.

Any comments regarding this glossary should be reported to the [NERC Help Desk](#). Select "Standards" from the "Service" drop-down menu and "Other" from the Standards Subcategory drop-down menu.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
ACE Diversity Interchange	Project-2022-01	ADI	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A frequency neutral exchange program where multiple participating Balancing Authorities utilize it to achieve reductions in their generation control and Reporting ACE through offsets to either Actual Net Interchange or Scheduled Net Interchange ACE components to create an ACE value closer to zero for each participant.
Actual Frequency (FA)	Project 2010-14.2.1. Phase 2		2/11/2016		7/1/2016	RM16-13-000	The Interconnection frequency measured in Hertz (Hz)
Actual Net Interchange	Project-2022-01	NI _A	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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.
Adequacy	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Adjacent Balancing Authority	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	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.
Adverse Reliability Impact	Coordinate Operations		2/7/2006	3/16/2007		RM06-16-000	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.
After the Fact	Project 2007-14	ATF	10/29/2008	12/17/2009		RM09-8-000	A time classification assigned to an RFI when the submittal time is greater than one hour after the start time of the RFI.
Agreement	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A contract or arrangement, either written or verbal and sometimes enforceable by law.

Subject to Enforcement

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Alternative Interpersonal Communication	Project 2006-06		11/7/2012	4/16/2015	10/1/2015	RM14-13-000	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.
Altitude Correction Factor	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	A multiplier applied to specify distances, which adjusts the 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.
Ancillary Service	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.)
Anti-Aliasing Filter	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An analog filter installed at a metering point to remove the high frequency components of the signal over the AGC sample period.
Area Control Error	Project-2022-01	ACE	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The instantaneous difference between an entity's Actual Net Interchange (NIA) and Scheduled Net Interchange (NIS), taking into account the effects of Frequency Bias, of correction for meter error, and of Inadvertent Interchange Management (IIM) if operating in the IIM mode. For compliance usage, refer to the term Reporting ACE.
Area Interchange Methodology	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	The Area Interchange methodology is characterized by 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

Subject to Enforcement

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Arranged Interchange	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	The state where a Request for Interchange (initial or revised) has been submitted for approval.
Attaining Balancing Authority	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	A Balancing Authority bringing generation or load into its effective control boundaries through a Dynamic Transfer from the Native Balancing Authority.
Automatic Generation Control	Project-2022-01	AGC	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A process designed and used to adjust a Balancing Authority Area's Demand and resources to help maintain the Reporting ACE in that Balancing Authority Area within the bounds required by applicable NERC Reliability Standards.
Automatic Time Error Correction	Project-2022-01	A TEC	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	<p>The addition of a component, represented by the term IATEC, to the Reporting ACE equation for the Western Interconnection that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange and to correct Time Error. Automatic Time Error Correction is only applicable in the Western Interconnection. IATEC shall be zero when operating in any other AGC mode.</p> $I_{ATEC} = \frac{PI_{accum}^{on/off\ peak}}{(1-Y)*H}$ <p>The absolute value of IATEC shall not exceed LMax.</p> <p>IATEC shall be zero when operating in any other AGC mode.</p> <ul style="list-style-type: none"> Lmax is the maximum value allowed for IATEC set by each BA between $0.2 * B_i$ and L10; i.e. $0.2 * B_i \leq L_{max} \leq L10$. $L_{10} = 1.65 * \epsilon_{10} * \sqrt{(-10B_i)(-10B_s)}$

Subject to Enforcement

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							<ul style="list-style-type: none"> • ϵ_{10} is a constant derived from the targeted frequency bound. It is the targeted rootmean-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. • $Y = B_i/BS$. • H = Number of hours used to pay back primary Inadvertent Interchange energy. The value of H is set to 3. • B_i = Frequency Bias Setting for the Balancing Authority Area (MW/0.1 Hz). • B_s = Sum of the Frequency Bias Settings for the Interconnection (MW/0.1 Hz). For entities with a variable Frequency Bias, the annual time weighted average FBS based on the one minute values used in BAL-001 when frequency is greater than 60.036Hz or less than 59.964 Hz. • Primary Inadvertent Interchange (PII_{hourly}) is $(1-Y) * (I_{actual} - B_i * \Delta TE/6) * BA_{island}$ • BA_{island} = Binary term: 1 indicates the BA is interconnected; 0 indicates the BA is entirely islanded and not interconnected. I_{actual} 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: $\Delta TE = TE_{end\ hour} - TE_{begin\ hour} - TD_{adj} - t*(TE_{offset})$ • TD_{adj} is the Reliability Coordinator adjustment for

Subject to Enforcement

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							<p>differences with Interconnection time monitor control center clocks.</p> <ul style="list-style-type: none"> t is the number of minutes spent performing manual Time Error Correction that occurred during each hour TEoffset is 0.000 or +0.020 or -0.020. PIIaccum is the Balancing Authority Area's accumulated PIIhourly in MWh. An On-Peak and Off Peak accumulation accounting is required, where: $PII_{accum}^{on/offpeak} = \text{last period's } PII_{accum}^{on/offpeak} + PII_{hourly}$
Available Flowgate Capability	Project 2006-07	AFC	8/22/2008	11/24/2009		RM08-19-000	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.
Available Transfer Capability	Project 2006-07	ATC	8/22/2008	11/24/2009		RM08-19-000	A measure of the transfer capability remaining in the physical transmission network for further commercial activity over and above already committed uses. It is defined as Total Transfer Capability less Existing Transmission Commitments (including retail customer service), less a Capacity Benefit Margin, less a Transmission Reliability Margin, plus Postbacks, plus counterflows
Available Transfer Capability Implementation Document	Project 2006-07	ATCID	8/22/2008	11/24/2009		RM08-19-000	A document that describes the implementation of a methodology for calculating ATC or AFC, and provides information related to a Transmission Service Provider's calculation of ATC or AFC.
Balancing Authority	Project 2010-14.2.1. Phase 2		2/11/2016	9/20/2017	1/1/2019	RM16-13-000	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.

Subject to Enforcement

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Balancing Authority Area	Project-2022-01	BAA	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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.
Balancing Contingency Event	Project-2022-01	BCE	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	<p>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.</p> <p>A. Sudden loss of generation due to:</p> <ul style="list-style-type: none"> i. unit tripping, or ii. loss of generator Facility resulting in isolation of the generator from the Bulk Electric System or from the responsible entity's System, or iii. sudden unplanned outage of transmission Facility; <p>And, that causes an unexpected change to the responsible entity's Reporting ACE.</p> <p>B. Sudden loss of an import, due to forced outage of transmission equipment that causes an unexpected imbalance between generation and Demand on the Interconnection.</p> <p>C. Sudden restoration of a Demand that was used as a resource that causes an unexpected change to the responsible entity's Reporting ACE.</p>
Base Load	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The minimum amount of electric power delivered or required over a given period at a constant rate.
BES Cyber Asset	Project 2014-02	BCA	2/12/2015	1/21/2016	7/1/2016	RM15-14-000	A Cyber Asset that if rendered unavailable, degraded, or misused would, within 15 minutes of its required operation, misoperation, 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

Subject to Enforcement

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							equipment shall not be considered when determining adverse impact. Each BES Cyber Asset is included in one or more BES Cyber Systems.
BES Cyber System	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	One or more BES Cyber Assets logically grouped by a responsible entity to perform one or more reliability tasks for a functional entity.
BES Cyber System Information	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	<p>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.</p> <p>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.</p>
Blackstart Resource	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.

Subject to Enforcement

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Block Dispatch	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	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).
Bulk Electric System	Project 2010-17	BES	11/21/2013	3/20/2014	7/1/2014	RD14-2-000	<p>(Please see the Implementation Plan for Phase 2 Compliance obligations.)</p> <p>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.</p> <p>Inclusions:</p> <ul style="list-style-type: none"> •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: <ul style="list-style-type: none"> a) Gross individual nameplate rating greater than 20 MVA. Or, b) Gross plant/facility aggregate nameplate rating greater than 75 MVA. •I3 - Blackstart Resources identified in the Transmission Operator's restoration plan. •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

Subject to Enforcement

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							<p>facilities designated as BES are:</p> <ul style="list-style-type: none"> a) The individual resources, and b) The system designed primarily for delivering capacity from the point where those resources aggregate to greater than 75 MVA to a common point of connection at a voltage of 100 kV or above. <p>• 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</p> <p>Exclusions:</p> <ul style="list-style-type: none"> • E1 - Radial systems: A group of contiguous transmission Elements that emanates from a single point of connection of 100 kV or higher and: <ul style="list-style-type: none"> a) Only serves Load. Or, 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, 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). <p>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.</p>

Subject to Enforcement

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							<ul style="list-style-type: none"> • E2 - 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. • 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: <ul style="list-style-type: none"> 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

Subject to Enforcement

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							Interconnections, and is not a monitored Facility included in an Interconnection Reliability Operating Limit (IROL). <ul style="list-style-type: none"> • E4 – 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.
Bulk-Power System	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	(A) facilities and control systems necessary for operating an interconnected electric energy transmission network (or any 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.)
Burden	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Bus-tie Breaker	Project 2006-02		8/4/2011	10/17/2013	1/1/2015	RM12-1-000	A circuit breaker that is positioned to connect two individual substation bus configurations.
Capacity Benefit Margin	000 - Version 0 Reliability Standards	CBM	2/8/2005	3/16/2007		RM06-16-000	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

Subject to Enforcement

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							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.
Capacity Benefit Margin Implementation Document	Project 2006-07	CBMID	11/13/2008	11/24/2009		RM08-19-000	A document that describes the implementation of a Capacity Benefit Margin methodology.
Capacity Emergency			2/8/2005	3/16/2007		RM06-16-000	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 inadequate to meet its demand plus its regulating requirements.
Cascading	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.
CIP Exceptional Circumstance	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.
CIP Senior Manager	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.

Subject to Enforcement

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Clock Hour	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The 60-minute period ending at :00. All surveys, measurements, and reports are based on Clock Hour periods unless specifically noted.
Cogeneration	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Production of electricity from steam, heat, or other forms of energy produced as a by-product of another process.
Compliance Monitor	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The entity that monitors, reviews, and ensures compliance of responsible entities with reliability standards.
Composite Confirmed Interchange	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	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.
Composite Protection System	Project 2010-05.1		8/14/2014	5/13/2015	7/1/2016	RD14-14-000	The total complement of Protection System(s) that function collectively to protect an Element. Backup protection provided by a different Element's Protection System(s) is excluded.
Confirmed Interchange	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	The state where no party has denied and all required parties have approved the Arranged Interchange.
Congestion Management Report	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A report that the Interchange Distribution Calculator issues when 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.
Consequential Load Loss	Project 2006-02		8/4/2011	10/17/2013	1/1/2015	RM12-1-000	All Load that is no longer served by the Transmission system as a result of Transmission Facilities being removed from service by a Protection System operation designed to isolate the fault.
Constrained Facility	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A transmission facility (line, transformer, breaker, etc.) that is approaching, is at, or is beyond its System Operating Limit or Interconnection Reliability Operating Limit.

Subject to Enforcement

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Contact Path	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An agreed upon electrical path for the continuous flow of electrical power between the parties of an Interchange Transaction.
Contingency	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The unexpected failure or outage of a system component, such as a generator, transmission line, circuit breaker, switch or other electrical element.
Contingency Event Recovery Period	Project 2010-14.1		11/5/2015	1/19/2017	1/1/2018	RM16-7-000	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.
Contingency Reserve	Project 2010-14.1		11/5/2015	1/19/2017	1/1/2018	RM16-7-000	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: <ul style="list-style-type: none"> • 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. • is utilizing its Contingency Reserve to mitigate an operating emergency in accordance with its emergency Operating Plan.
Contingency Reserve Restoration Period	Project 2010-14.1		11/5/2015	1/19/2017	1/1/2018	RM16-7-000	A period not exceeding 90 minutes following the end of the Contingency Event Recovery Period.
Control Center	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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

Subject to Enforcement

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							transmission Facilities at two or more locations, or 4) a Generator Operator for generation Facilities at two or more locations.
Control Performance Standard	Project-2022-01	CPS	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	Methodology of controlling Reporting ACE relative to Frequency Error, expressed as a moving average subject to a limit. It is used as an indicator of sufficient secondary AGC control to maintain energy balance and Scheduled Frequency.
Corrective Action Plan	Phase III-IV Planning Standards		2/7/2006	3/16/2007		RM06-16-000	A list of actions and an associated timetable for implementation to remedy a specific problem.
Cranking Path	Phase III-IV Planning Standards		5/2/2006	3/16/2007		RM06-16-000	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.
Curtailment	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A reduction in the scheduled capacity or energy delivery of an Interchange Transaction.
Curtailment Threshold	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The minimum Transfer Distribution Factor which, if exceeded, will subject an Interchange Transaction to curtailment to relieve a transmission facility constraint.
Cyber Assets	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	Programmable electronic devices, including the hardware, software, and data in those devices.
Cyber Security Incident	Project 2018-02		2/7/2019	6/20/2019	1/1/2021	RD19-3-000	<p>A malicious act or suspicious event that:</p> <ul style="list-style-type: none"> • 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 • Disrupts or attempts to disrupt the operation of a BES Cyber System

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Delayed Fault Clearing	Determine Facility Ratings, Operating Limits, and Transfer Capabilities		11/1/2006	12/27/2007		RM07-3-000	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.
Demand	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	1.The rate at which electric energy is delivered to or by a system or part of a system, generally expressed in kilowatts or megawatts, at a given instant or averaged over any designated interval of time. 2.The rate at which energy is being used by the customer.
Demand-Side Management	Project 2010-04	DSM	5/6/2014	2/19/2015	7/1/2016	RM14-12-000	All activities or programs undertaken by any applicable entity to achieve a reduction in Demand.
Dial-up Connectivity	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.
Direct Control Load Management	Project 2008-06	DCLM	2/8/2005	3/16/2007		RM06-16-000	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.
Dispatch Order	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	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.
Dispersed Load by Substations	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Substation load information configured to represent a system for power flow or system dynamics modeling purposes, or both.
Distribution Factor	000 - Version 0 Reliability Standards	DF	2/8/2005	3/16/2007		RM06-16-000	The portion of an Interchange Transaction, typically expressed in per unit that flows across a transmission facility (Flowgate).

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Distribution Provider	Project 2015-04	DP	11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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
Disturbance	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	<ol style="list-style-type: none"> 1. An unplanned event that produces an abnormal system condition. 2. Any perturbation to the electric system. 3. The unexpected change in Reporting ACE that is caused by the sudden failure of generation or interruption of load.
Disturbance Control Standard	000 - Version 0 Reliability Standards	DCS	2/8/2005	3/16/2007		RM06-16-000	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.
Disturbance Monitoring Equipment	Phase III-IV Planning Standards	DME	8/2/2006	3/16/2007		RM06-16-000	<p>Devices capable of monitoring and recording system data pertaining to a Disturbance. Such devices include the following categories of recorders* :</p> <ul style="list-style-type: none"> • Sequence of event recorders which record equipment response to the event • Fault recorders, which record actual waveform data replicating the system primary voltages and currents. This may include protective relays. <p>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</p> <p>*Phasor Measurement Units and any other equipment that meets the functional requirements</p>

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Dynamic Interchange Schedule or Dynamic Schedule	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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' Reporting ACE
Dynamic Transfer	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Economic Dispatch	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The allocation of demand to individual generating units on line to effect the most economical production of electricity.
Electrical Energy	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The generation or use of electric power by a device over a period of time, expressed in kilowatthours (kWh), megawatthours (MWh), or gigawatthours (GWh).
Electronic Access Control or Monitoring Systems	Project 2008-06	EACMS	11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.
Electronic Access Point	Project 2008-06	EAP	11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.
Electronic Security Perimeter	Project 2008-06	ESP	11/26/2012	11/22/2013	7/1/2016	RM13-5-000	The logical border surrounding a network to which BES Cyber Systems are connected using a routable protocol.
Element	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.
Emergency or BES	000 - Version 0		2/8/2005	3/16/2007		RM06-16-000	Any abnormal system condition that requires automatic or

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Emergency	Reliability Standards						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.
Emergency Rating	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Emergency Request for Interchange	Project 2007-14	Emergency RFI	10/29/2008	12/17/2009		RM09-8-000	Request for Interchange to be initiated for Emergency or Energy Emergency conditions.
Energy Emergency	000 - Version 0 Reliability Standards		11/13/2014	11/19/2015	4/1/2017	RM06-16-000	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.
Equipment Rating	Determine Facility Ratings, Operating Limits, and Transfer Capabilities		2/7/2006	3/16/2007		RM06-16-000	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.
Existing Transmission Commitments	Project 2006-07	ETC	8/22/2008	11/24/2009		RM08-19-000	Committed uses of a Transmission Service Provider's Transmission system considered when determining ATC or AFC.
External Routable Connectivity	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.
Extreme Cold Weather Temperature	Project-2021-07		2/15/2024	6/27/2024	10/1/2024	RD24-5-000	The temperature equal to the lowest 0.2 percentile of the hourly temperatures measured in December, January, and February from 1/1/2000 through the date the temperature is calculated.
Facility	Determine Facility Ratings, Operating		2/7/2006	3/16/2007		RM06-16-000	A set of electrical equipment that operates as a single Bulk Electric System Element (e.g., a line, a generator, a shunt

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
	Limits, and Transfer Capabilities						compensator, transformer, etc.)
Facility Rating	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Fault	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An event occurring on an electric system such as a short circuit, a broken wire, or an intermittent connection.
Fire Risk	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	The likelihood that a fire will ignite or spread in a particular geographic area.
Firm Demand	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	That portion of the Demand that a power supplier is obligated to provide except when system reliability is threatened or during emergency conditions.
Firm Transmission Service	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The highest quality (priority) service offered to customers under a filed rate schedule that anticipates no planned interruption.
Fixed Fuel Supply Component	Project-2021-07		2/15/2024	6/27/2024	10/1/2024	RD24-5-000	Non-mobile equipment that supports the reliable delivery of fuel to the generating unit and under the control of the Generator Owner at a plant site. Gaseous, liquid, or solid fuel handling components that are installed on site as fixed parts of the fuel delivery system that are under the Generator Owner's control are included. Mobile equipment such as trains, bulldozers, or other equipment that are not fixed in one location are excluded.
Flashover	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	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.
Flowgate	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	1.) A portion of the Transmission system through which the Interchange Distribution Calculator calculates the power flow from Interchange Transactions.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							2.) A mathematical construct, comprised of one or more monitored transmission Facilities and optionally one or more contingency Facilities, used to analyze the impact of power flows upon the Bulk Electric System.
Flowgate Methodology	000 - Version 0 Reliability Standards		8/22/2008	11/24/2009		RM06-16-000	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).
Forced Outage	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	<ol style="list-style-type: none"> 1. The removal from service availability of a generating unit, transmission line, or other facility for emergency reasons. 2. The condition in which the equipment is unavailable due to unanticipated failure.
Frequency Bias	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Frequency Bias Setting	Project-2022-01	FBS	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A negative number either fixed or variable, expressed in MW/0.1 Hz, included in a Balancing Authority's Reporting ACE to account for the Balancing Authority's Frequency Response to the Interconnection Frequency Error, and discourage response withdrawal through secondary control systems.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Frequency Deviation	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A change in Interconnection frequency.
Frequency Error	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The difference between the Actual Frequency and the Scheduled Frequency. (FA –FS)
Frequency Regulation	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Frequency Response	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	(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).
Frequency Response Measure	Project 2007-12	FRM	2/7/2013	1/16/2014	4/1/2015	RM13-11-000	The median of all the Frequency Response observations 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.
Frequency Response Obligation	Project 2007-12	FRO	2/7/2013	1/16/2014	4/1/2015	RM13-11-000	The Balancing Authority's share of the required Frequency Response needed for the reliable operation of an Interconnection. This will be calculated as MW/0.1Hz.
Frequency Response Sharing Group	Project 2007-12	FRSG	2/7/2013	1/16/2014	4/1/2015	RM13-11-000	A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating resources required to jointly meet the sum of the Frequency Response Obligations of its members.
Generation Capability Import Requirement	Project 2006-07	GCIR	11/13/2008	11/24/2009		RM08-19-000	The amount of generation capability from external sources 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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Generator Cold Weather Critical Component	Project-2021-07		2/15/2024	6/27/2024	10/1/2024	RD24-5-000	Any generating unit component or system, or associated Fixed Fuel Supply Component, that is under the Generator Owner's control, and is susceptible to freezing issues, the occurrence of which would likely lead to a Generator Cold Weather Reliability Event. This definition excludes any component or system or associated Fixed Fuel Supply Component located inside a permanent building with a heating source that regularly maintains the space at a temperature above 32 degrees Fahrenheit (0 degrees Celsius).
Generator Cold Weather Constraint	Project 2024-03		4/4/2025	9/18/2025	10/1/2025	RD25-7-000	Any condition that would preclude a Generator Owner from implementing freeze protection measures on one or more Generator Cold Weather Critical Components. Freeze protection measures are not intended to be limited to optimum practices, methods, or technologies, but are also intended to include practices, methods, or technologies that would be expected to result in improved generating unit performance during cold temperatures.
Generator Cold Weather Reliability Event	Project-2021-07		2/15/2024	6/27/2024	10/1/2024	RD24-5-000	One of the following events for which the apparent cause(s) is due to freezing of equipment or impacts of freezing precipitation (e.g., sleet, snow, ice, and freezing rain) on equipment within the Generator Owner's control, and the dry bulb temperature at the time of the event was at or above the Extreme Cold Weather Temperature: (1) a forced derate of more than 10% of the total capacity of the unit, but not less than 20 MWs for longer than four hours in duration; (2) a start-up failure where the unit fails to synchronize within a specified start-up time; or (3) a Forced Outage.
Generator Operator	Project 2024-01	GOP	8/14/2025	10/1/2025	1/1/2026	RD25-10-000	The entity that: 1) operates generating Facility(ies) and performs the functions of supplying energy and Interconnected Operations Services (Category 1 GOP); or 2) operates non-BES Inverter-Based Resources(s) that either have or contribute to an aggregate nameplate capacity of

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							greater than or equal to 20 MVA, connected through a system designed primarily for delivering such capacity to a common point of connection at a voltage greater than or equal to 60 kV (Category 2 GOP).
Generator Owner	Project 2024-01	GO	8/14/2025	10/1/2025	1/1/2026	RD25-10-000	The entity that: 1) owns and maintains generating Facility(ies) (Category 1 GO); or 2) owns and maintains non-BES Inverter-Based Resource(s) that either have or contribute to an aggregate nameplate capacity of greater than or equal to 20 MVA, connected through a system designed primarily for delivering such capacity to a common point of connection at a voltage greater than or equal to 60 kV (Category 2 GO).
Generator Shift Factor	000 - Version 0 Reliability Standards	GSF	2/8/2005	3/16/2007		RM06-16-000	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.
Generator-to-Load Distribution Factor	000 - Version 0 Reliability Standards	GLDF	2/8/2005	3/16/2007		RM06-16-000	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.
Geomagnetic Disturbance Vulnerability Assessment or GMD Vulnerability Assessment	Project 2013-03	GMD	12/17/2014	9/22/2016	7/1/2017	RM15-11-000	Documented evaluation of potential susceptibility to voltage collapse, Cascading, or localized damage of equipment due to geomagnetic disturbances.
Host Balancing Authority	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	<ol style="list-style-type: none"> 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. 2. The Balancing Authority within whose metered boundaries a jointly owned unit is physically located.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Hourly Value	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Data measured on a Clock Hour basis.
Implemented Interchange	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The state where the Balancing Authority enters the Confirmed Interchange into its Reporting ACE .
Inadvertent Interchange	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The difference between the Balancing Authority's Actual Net Interchange and Scheduled Net Interchange. (NIA – NIS)
Inadvertent Interchange Management	Project-2022-01	IIM	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A term used in Reporting ACE to allow for management of Inadvertent Interchange and correction of Time Error. The IIM value is not used for unilateral paybacks and is null unless there is a regional procedure in place to coordinate an inadvertent control methodology for an Interconnection.
Independent Power Producer	000 - Version 0 Reliability Standards	IPP	2/8/2005	3/16/2007		RM06-16-000	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.
Institute of Electrical and Electronics Engineers, Inc.	Project 2007-07	IEEE	2/7/2006	3/16/2007		RM06-16-000	
Interactive Remote Access	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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 System 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

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							owned by vendors, contractors, or consultants. Interactive remote access does not include system-to-system process
Interchange	Coordinate Interchange		5/2/2006	3/16/2007		RM06-16-000	Energy transfers that cross Balancing Authority boundaries.
Interchange Authority	Project 2015-04	IA	11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.
Interchange Distribution Calculator	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Interchange Meter Error	Project-2022-01	IME	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A term used in Reporting ACE to compensate for data or equipment errors affecting any other components of Reporting ACE.
Interchange Schedule	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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.
Interchange Transaction	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An agreement to transfer energy from a seller to a buyer that crosses one or more Balancing Authority Area boundaries.
Interchange Transaction Tag or Tag	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The details of an Interchange Transaction required for its physical implementation.
Interconnected Operations Service	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	A service (exclusive of basic energy and Transmission Services) that is required to support the Reliable Operation of interconnected Bulk Electric Systems.
Interconnection	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	A geographic area in which the operation of Bulk Power

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							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.
Interconnection Reliability Operating Limit	Determine Facility Ratings, Operating Limits, and Transfer Capabilities	IROL	11/1/2006	12/27/2007		RM07-3-000	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.
Interconnection Reliability Operating Limit Tv	Determine Facility Ratings, Operating Limits, and Transfer Capabilities	IROL Tv	11/1/2006	12/27/2007		RM07-3-000	The maximum time that an Interconnection Reliability Operating Limit can be violated before the risk to the interconnection or other Reliability Coordinator Area(s) becomes greater than acceptable. Each Interconnection Reliability Operating Limit's Tv shall be less than or equal to 30 minutes.
Intermediate Balancing Authority	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	A Balancing Authority on the scheduling path of an Interchange Transaction other than the Source Balancing Authority and Sink Balancing Authority.
Intermediate System	Project 2008-06		11/26/2012	11/22/2013	7/1/2016	RM13-5-000	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.
Interpersonal Communication	Project 2006-06		11/7/2012	4/16/2015	10/1/2015	RM14-13-000	Any medium that allows two or more individuals to interact, consult, or exchange information.
Interruptible Load or Demand	000 - Version 0 Reliability Standards		11/1/2006	3/16/2007		RM06-16-000	Demand that the end-use customer makes available to its Load-Serving Entity via contract or agreement for curtailment.
Inverter-Based Resource	Project 2020-06	IBR	10/8/2024	2/20/2025	4/1/2025	RM15-11-000	A plant/facility consisting of individual devices that are capable of exporting Real Power through a power electronic interface(s) such as an inverter or converter, and that are operated together as a single resource at a

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							common point of interconnection to the electric system. Examples include, but are not limited to, plants/facilities with solar photovoltaic (PV), Type 3 and Type 4 wind, battery energy storage system (BESS), and fuel cell devices.
Joint Control	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Automatic Generation Control of jointly owned units by two or more Balancing Authorities.
Limiting Element	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Load	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An end-use device or customer that receives power from the electric system.
Load Shift Factor	000 - Version 0 Reliability Standards	LSF	2/8/2005	3/16/2007		RM06-16-000	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.
Load-Serving Entity	Project 2015-04	LSE	11/5/2015	1/21/2016	7/1/2016	RD16-3-000	Secures energy and Transmission Service (and related Interconnected Operations Services) to serve the electrical demand and energy requirements of its end-use customers.
Long-Term Transmission Planning Horizon	Project 2006-02		8/4/2011	10/17/2013	1/1/2015	RM12-1-000	Transmission planning period that covers years six through ten or beyond when required to accommodate any known longer lead time projects that may take longer than ten years to complete.
Market Flow	Project 2006-08		11/4/2010	4/21/2011		RM06-16-000	The total amount of power flowing across a specified Facility or set of Facilities due to a market dispatch of generation internal to the market to serve load internal to the market.
Minimum Vegetation Clearance Distance	Project 2007-07	MVCD	11/3/2011	3/21/2013	7/1/2014	RM06-16-000	The calculated minimum distance stated in feet (meters) to prevent flash-over between conductors and vegetation, for various altitudes and operating voltages.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Misoperation	Project 2010-05.1		8/14/2014	5/13/2015	7/1/2016	RD14-14-000	<p>The failure of a Composite Protection System to operate as intended for protection purposes. Any of the following is a Misoperation:</p> <ol style="list-style-type: none"> 1. 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. 2. 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. 3. 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. 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. 5. Unnecessary Trip – During Fault – An unnecessary Composite Protection System operation for a Fault condition on another Element. 6. Unnecessary Trip – Other Than Fault – An unnecessary Composite Protection System operation for a non-Fault

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							condition. A Composite Protection System operation that is caused by personnel during on-site maintenance, testing, inspection, construction, or commissioning activities is not a Misoperation.
Most Severe Single Contingency	Project 2010-14.1	MSSC	11/5/2015	1/19/2017	1/1/2018	RM16-7-000	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).
Native Balancing Authority	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	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.
Native Load	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The end-use customers that the Load-Serving Entity is obligated to serve.
Near-Term Transmission Planning Horizon	Project 2010-10		1/24/2011	11/17/2011		RM08-19-000	The transmission planning period that covers Year One through five.
Net Actual Interchange	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The algebraic sum of all metered interchange over all interconnections between two physically Adjacent Balancing Authority Areas.
Net Energy for Load	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							facilities.
Network Integration Transmission Service	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Service that allows an electric transmission customer to integrate, plan, economically dispatch and regulate its network reserves in a manner comparable to that in which the Transmission Owner serves Native Load customers.
Non-Consequential Load Loss	Project 2006-02		8/4/2011	10/17/2013	1/1/2015	RM12-1-000	Non-Interruptible Load loss that does not include: (1) Consequential Load Loss, (2) the response of voltage sensitive Load, or (3) Load that is disconnected from the System by end- user equipment.
Non-Firm Transmission Service	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Transmission service that is reserved on an as-available basis and is subject to curtailment or interruption.
Non-Spinning Reserve	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Normal Clearing	Determine Facility Ratings, Operating Limits, and Transfer Capabilities		11/1/2006	12/27/2007		RM07-3-000	A protection system operates as designed and the fault is cleared in the time normally expected with proper functioning of the installed protection systems.
Normal Rating	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Nuclear Plant Generator Operator	Project 2009-08		5/2/2007	10/16/2008		RM08-3-000	Any Generator Operator or Generator Owner that is a Nuclear Plant Licensee responsible for operation of a nuclear facility licensed to produce commercial power.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Nuclear Plant Interface Requirements	Project 2009-08	NPIRs	5/2/2007	10/16/2008		RM08-3-000	The requirements based on NPIRs and Bulk Electric System requirements that have been mutually agreed to by the Nuclear Plant Generator Operator and the applicable Transmission Entities.
Nuclear Plant Licensing Requirements	Project 2009-08	NPLRs	5/2/2007	10/16/2008		RM08-3-000	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.
Nuclear Plant Off-site Power Supply (Off-site Power)	Project 2009-08		5/2/2007	10/16/2008		RM08-3-000	The electric power supply provided from the electric system to the nuclear power plant distribution system as required per the nuclear power plant license.
Off-Peak	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Those hours or other periods defined by NAESB business practices, contract, agreements, or guides as periods of lower electrical demand.
On-Peak	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Those hours or other periods defined by NAESB business practices, contract, agreements, or guides as periods of higher electrical demand.
Open Access Same Time Information Service	000 - Version 0 Reliability Standards	OASIS	2/8/2005	3/16/2007		RM06-16-000	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.
Open Access Transmission Tariff	000 - Version 0 Reliability Standards	OATT	2/8/2005	3/16/2007		RM06-16-000	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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Operating Instruction	Project 2007-02		5/6/2014	4/16/2015	7/1/2016	RM14-13-000	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.)
Operating Plan	Coordinate Operations		2/7/2006	3/16/2007		RM06-16-000	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
Operating Procedure	Coordinate Operations		2/7/2006	3/16/2007		RM06-16-000	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.
Operating Process	Coordinate Operations		2/7/2006	3/16/2007		RM06-16-000	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 Operating Process.
Operating Reserve	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Operating Reserve – Spinning	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • Generation synchronized to the system and fully available to serve load within the Disturbance recovery period following the contingency event; or • Load fully removable from the system within the Disturbance recovery period following the contingency event.
Operating Reserve – Supplemental	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The portion of Operating Reserve consisting of: <ul style="list-style-type: none"> • 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 • Load fully removable from the system within the Disturbance Recovery Period following the contingency event.
Operating Voltage	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	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.
Operational Planning Analysis	Project 2007-06.2	OPA	8/11/2016	6/7/2018	4/1/2021	RM16-22-000	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.)

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Operations Support Personnel	Project 2010-01		2/6/2014	6/19/2014	7/1/2016	RD14-7-000	Individuals who perform current day or next day outage coordination or assessments, or who determine SOLs, IROs, or operating nomograms,1 in direct support of Real-time operations of the Bulk Electric System.
Outage Transfer Distribution Factor	Project 2006-07	OTDF	8/22/2008	11/24/2009		RM08-19-000	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).
Overlap Regulation Service	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A method of providing Regulation Service in which the Balancing Authority providing the Regulation Service incorporates into its Reporting ACE a receiving Balancing Authority's Actual Net Interchange, Scheduled Net Interchange, and response to Interconnection Error Frequency.
Participation Factors	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	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 they will contribute to serve load.
Peak Demand	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	<ol style="list-style-type: none"> 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). 2. The highest instantaneous demand within the Balancing Authority Area.
Performance-Reset Period	Determine Facility Ratings, Operating Limits, and Transfer Capabilities		2/7/2006	3/16/2007		RM06-16-000	The time period that the entity being assessed must operate without any violations to reset the level of non compliance to zero.
Physical Access Control Systems	Project 2008-06	PACS	11/26/2012	11/22/2013	7/1/2016	RM13-5-000	Cyber Assets that control, alert, or log access to the Physical 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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Physical Security Perimeter	Project 2008-06	PSP	11/26/2012	11/22/2013	7/1/2016	RM13-5-000	The physical border surrounding locations in which BES Cyber Assets, BES Cyber Systems, or Electronic Access Control or Monitoring Systems reside, and for which access is controlled.
Planning Assessment	Project 2006-02		8/4/2011	10/17/2013	1/1/2015	RM12-1-000	Documented evaluation of future Transmission System performance and Corrective Action Plans to remedy identified deficiencies.
Planning Authority	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	The responsible entity that coordinates and integrates transmission Facilities and service plans, resource plans, and Protection Systems.
Planning Coordinator	Project 2006-07	PC	8/22/2008	11/24/2009		RM08-19-000	See Planning Authority.
Point of Delivery	000 - Version 0 Reliability Standards	POD	2/8/2005	3/16/2007		RM06-16-000	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.
Point of Receipt	Project 2015-04	POR	11/5/2015	1/21/2016	7/1/2016	RD16-3-000	A location that the Transmission Service Provider specifies on its transmission system where an Interchange Transaction enters or a generator delivers its output.
Point to Point Transmission Service	000 - Version 0 Reliability Standards	PTP	2/8/2005	3/16/2007		RM06-16-000	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.
Power Transfer Distribution Factor	Project 2006-07	PTDF	8/22/2008	11/24/2009		RM08-19-000	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
Pre-Reporting Contingency Event ACE Value	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Pro Forma Tariff	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Usually refers to the standard OATT and/or associated transmission rights mandated by the U.S. Federal Energy Regulatory Commission Order No. 888.
Protected Cyber Assets	Project 2014-02	PCA	2/12/2015	1/21/2016	7/1/2016	RM15-14-000	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.
Protection System	Project 2007-17		11/19/2010	2/3/2012	4/1/2013	RM13-7-000	<ul style="list-style-type: none"> • Protective relays which respond to electrical quantities, • Communications systems necessary for correct operation of protective functions • Voltage and current sensing devices providing inputs to protective relays, • Station dc supply associated with protective functions (including station batteries, battery chargers, and non-battery-based dc supply), and • Control circuitry associated with protective functions through the trip coil(s) of the circuit breakers or other interrupting devices.
Protection System Coordination Study	Project 2007-06		11/5/2015	6/7/2018	4/1/2021	RM16-22-000	An analysis to determine whether Protection Systems operate in the intended sequence during Faults.
Protection System Maintenance Program (PRC-005-6)	Project 2007-17.4	PSMP	11/5/2015	12/18/2015	1/1/2016	RD16-2-000	<p>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:</p> <ul style="list-style-type: none"> • Verify — Determine that the Component is functioning correctly. • Monitor — Observe the routine in service operation of

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							<p>the Component.</p> <ul style="list-style-type: none"> • Test — Apply signals to a Component to observe functional performance or output behavior, or to diagnose problems. • Inspect — Examine for signs of Component failure, reduced performance or degradation. • Calibrate — Adjust the operating threshold or measurement accuracy of a measuring element to meet the intended performance requirement.
Pseudo-Tie	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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 .
Purchasing-Selling Entity	000 - Version 0 Reliability Standards	PSE	2/8/2005	3/16/2007		RM06-16-000	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.
Ramp Rate or Ramp	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	(Schedule) The rate, expressed in megawatts per minute, at which the Interchange Schedule is attained during the ramp period. (Generator) The rate, expressed in megawatts per minute, that a generator changes its output.
Rated Electrical Operating Conditions	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	The specified or reasonably anticipated conditions under which the electrical system or an individual electrical circuit is intend/ designed to operate
Rated System Path Methodology	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	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

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							specific transmission path capabilities.
Rating	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The operational limits of a transmission system element under a set of specified conditions.
Reactive Power	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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).
Real Power	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	The portion of electricity that supplies energy to the Load.
Real-time	Coordinate Operations		2/7/2006	3/16/2007		RM06-16-000	Present time as opposed to future time. (From Interconnection Reliability Operating Limits standard.)
Real-time Assessment	Project 2007-06.2	RTA	8/11/2016	6/8/2018	4/1/2021	RM16-22-000	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.)

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Receiving Balancing Authority	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The Balancing Authority importing the Interchange.
Regional Reliability Organization	000 - Version 0 Reliability Standards	RRO	2/8/2005	3/16/2007		RM06-16-000	<ol style="list-style-type: none"> 1. An entity that ensures that a defined area of the Bulk Electric System is reliable, adequate and secure. 2. A member of the North American Electric Reliability Council. The Regional Reliability Organization can serve as the Compliance Monitor.
Regional Reliability Plan	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The plan that specifies the Reliability Coordinators and Balancing Authorities within the Regional Reliability Organization, and explains how reliability coordination will be accomplished.
Regulating Reserve	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An amount of reserve responsive to Automatic Generation Control, which is sufficient to provide normal regulating margin.
Regulation Reserve Sharing Group	Project 2010-14.1		8/15/2013	4/16/2015	7/1/2016	RM16-7-000	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.
Regulation Service	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The process whereby one Balancing Authority contracts to provide corrective response to all or a portion of the Reporting 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 corrective response .
Reliability Adjustment Arranged Interchange	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	A request to modify a Confirmed Interchange or Implemented Interchange for reliability purposes.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Reliability Adjustment RFI	Project 2007-14		10/29/2008	12/17/2009		RM09-8-000	Request to modify an Implemented Interchange Schedule for reliability purposes.
Reliability Coordinator	Project 2015-04	RC	11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.
Reliability Coordinator Area	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The collection of generation, transmission, and loads within the boundaries of the Reliability Coordinator. Its boundary coincides with one or more Balancing Authority Areas.
Reliability Coordinator Information System	000 - Version 0 Reliability Standards	RCIS	2/8/2005	3/16/2007		RM06-16-000	The system that Reliability Coordinators use to post messages and share operating information in real time.
Reliability Standard	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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 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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Reliable Operation	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.
Remedial Action Scheme	Project 2010-05.2	RAS	11/13/2014	11/19/2015	4/1/2017	RD16-5-000	<p>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:</p> <ul style="list-style-type: none"> • Meet requirements identified in the NERC Reliability Standards; • Maintain Bulk Electric System (BES) stability; • Maintain acceptable BES voltages; • Maintain acceptable BES power flows; • Limit the impact of Cascading or extreme events. <p>The following do not individually constitute a RAS:</p> <ol style="list-style-type: none"> a. Protection Systems installed for the purpose of detecting Faults on BES Elements and isolating the faulted Elements b. Schemes for automatic underfrequency load shedding (UFLS) and automatic undervoltage load shedding (UVLS) comprised of only distributed relays c. Out-of-step tripping and power swing blocking d. Automatic reclosing schemes 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 f. Controllers that switch or regulate one or more of the following: series or shunt reactive devices, flexible alternating current transmission system (FACTS) devices,

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							<p>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</p> <p>g. FACTS controllers that remotely switch static shunt reactive devices located at other stations to regulate the output of a single FACTS device</p> <p>h. Schemes or controllers that remotely switch shunt reactors and shunt capacitors for voltage regulation that would otherwise be manually switched</p> <p>i. Schemes that automatically de-energize a line for a non-Fault operation when one end of the line is open</p> <p>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)</p> <p>k. Automatic sequences that proceed when manually initiated solely by a System Operator</p> <p>l. Modulation of HVdc or FACTS via supplementary controls, such as angle damping or frequency damping applied to damp local or inter-area oscillations</p> <p>m. Sub-synchronous resonance (SSR) protection schemes that directly detect sub-synchronous quantities (e.g., currents or torsional oscillations)</p> <p>n. Generator controls 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</p>
Removable Media	Project 2016-02		2/9/2017	4/19/2018	1/1/2020	RM24-8-000	<p>Storage media that:</p> <ol style="list-style-type: none"> 1. are not Cyber Assets, 2. are capable of transferring executable code, 3. can be used to store, copy, move, or access data, and 4. are directly connected for 30 consecutive calendar days

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							<p>or less to a BES Cyber Asset, network within an Electronic Security Perimeter (ESP) containing high or medium impact BES Cyber Systems, or Protected Cyber Asset associated with high or medium impact BES Cyber Systems</p> <p>Examples of Removable Media 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.</p>
Reportable Balancing Contingency Event	Project-2022-01	RBCE	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	<p>Any Balancing Contingency Event occurring within a one-minute interval of an initial sudden decline in the responsible entity's Reporting ACE that results in a loss of MW output less than or equal to its Most Severe Single Contingency (MSSC) , and greater than or equal to the lesser amount of:</p> <p>(i) 80% of its MSSC. Prior to any given calendar quarter, the 80% threshold may be reduced by the responsible entity upon written notification to its Regional Entity, or</p> <p>(ii) the amount listed below for the applicable Interconnection.</p> <ul style="list-style-type: none"> • Eastern Interconnection: 900 MW • Western Interconnection: 500 MW • ERCOT: 800 MW • Quebec: 500 MW
Reportable Cyber Security Incident	Project 2018-02		2/7/2019	6/20/2019	1/1/2021	RD19-3-000	<p>A Cyber Security Incident that compromised or disrupted:</p> <ul style="list-style-type: none"> - A BES Cyber System that performs one or more reliability tasks of a functional entity; - An Electronic Security Perimeter of a high or medium impact BES Cyber System; or - An Electronic Access Control or Monitoring System of a high or medium impact BES Cyber System

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Reporting Area Control Error	Project-2022-01	Reporting ACE	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	<p>The scan rate values of a Balancing Authority Area's Area Control Error (ACE) measured in MW, which includes the error in scheduled interchange adjusted for Frequency Bias obligation, known meter error, and inadvertent management. Reporting ACE is calculated as follows: Reporting ACE = $(NI_A - NI_S) - 10B (F_A - F_S) - I_{ME} + I_{IM}$ Where:</p> <ul style="list-style-type: none"> • NI_A = Actual Net Interchange. • NI_S = Scheduled Net Interchange. • B = Frequency Bias Setting. • F_A = Actual Frequency. • F_S = Scheduled Frequency. • I_{ME} = Interchange Meter Error. • I_{IM} = Inadvertent Interchange Management. (Term is expressed if a regional procedure exists, otherwise is null and is not included in the Balancing Authority's Reporting ACE.) <ul style="list-style-type: none"> ○ In the Western Interconnection this term is I_{ATEC} <p>All NERC Interconnections operate using the principles of Tie Line Bias (TLB) control and require the use of an ACE equation similar to the Reporting ACE defined above. Any modification(s) to this specified Reporting ACE that is(are) implemented for all BAAs in 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:</p> <ol style="list-style-type: none"> 1. Each individual portion of the Interconnection is included in exactly one BAA so that the sum of all BAAs' generation, Load, and losses is the same as total Interconnection generation, Load, and losses; 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. This includes effects of ACE Diversity

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							<p>Interchange (ADI) implementations;</p> <p>3. The use of a common Scheduled Frequency for all BAAs at all times; and,</p> <p>4. Excludes metering or computational errors. (The inclusion and use of the I_{ME} term corrects for known metering or computational errors.)</p>
Request for Interchange	Project 2008-12	RFI	2/6/2014	6/30/2014	10/1/2014	RD14-4-000	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.
Reserve Sharing Group	Project-2022-01	RSG	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	<p>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.</p> <p>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 would reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in more quickly (e.g., between zero and ten minutes) then, for the purposes of recovery from a Reportable Balancing Contingency Event, the areas become a Reserve Sharing Group.</p>
Reserve Sharing Group Reporting ACE	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	At any given time of measurement for the applicable Reserve Sharing Group (RSG), the algebraic sum of the Reporting ACEs (or equivalent as calculated at such time of measurement) of the Balancing Authorities participating in the RSG the time of measurement
Resource Planner	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Response Rate	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The Ramp Rate that a generating unit can achieve under normal operating conditions expressed in megawatts per minute (MW/Min).
Ride-through	Project 2020-02		10/8/2024	7/24/2025	10/1/2026	RM25-3-000	The plant/facility remains connected and continues to operate through voltage or frequency system disturbances.
Right-of-Way	Project 2010-07	ROW	5/9/2012	3/21/2013	7/1/2014	RM12-16-000	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
Scenario	Coordinate Operations		2/7/2006	3/16/2007		RM06-16-000	Possible event.
Schedule	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	(Verb) To set up a plan or arrangement for an Interchange Transaction. (Noun) An Interchange Schedule.
Scheduled Frequency	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	60.00 Hertz, except during a Time Error Correction
Scheduled Net Interchange	Project-2022-01	NI _s	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Scheduling Entity	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	An entity responsible for approving and implementing Interchange Schedules.
Scheduling Path	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The Transmission Service arrangements reserved by the Purchasing-Selling Entity for a Transaction.
Sending Balancing Authority	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The Balancing Authority exporting the Interchange.
Sink Balancing Authority	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	The Balancing Authority in which the load (sink) is located for an Interchange Transaction and any resulting Interchange Schedule.
Source Balancing Authority	Project 2008-12		2/6/2014	6/30/2014	10/1/2014	RD14-4-000	The Balancing Authority in which the generation (source) is located for an Interchange Transaction and for any resulting Interchange Schedule.
Special Protection System (Remedial Action Scheme)	Project 2010-05.2	SPS	5/5/2016	6/23/2016	4/1/2017	RD16-5-000	See "Remedial Action Scheme"
Spinning Reserve	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Unloaded generation that is synchronized and ready to serve additional demand.
Stability	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The ability of an electric system to maintain a state of equilibrium during normal and abnormal conditions or disturbances.
Stability Limit	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Supervisory Control and Data Acquisition	000 - Version 0 Reliability Standards	SCADA	2/8/2005	3/16/2007		RM06-16-000	A system of remote control and telemetry used to monitor and control the transmission system.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Supplemental Regulation Service	Project-2022-01		2/15/2024	4/29/2024	7/1/2025	RD24-6-000	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 Reporting ACE.
Surge	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A transient variation of current, voltage, or power flow in an electric circuit or across an electric system.
Sustained Outage	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	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.
System	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A combination of generation, transmission, and distribution components.
System Operating Limit	Project-2015-09		5/13/2021	3/4/2022	4/1/2024	RD22-2-000	All Facility Ratings, System Voltage Limits, and stability limits, applicable to specified System configurations, used in Bulk Electric System operations for monitoring and assessing pre- and post Contingency operating states.
System Operator	Project 2010-01		2/6/2014	6/19/2014	7/1/2016	RD14-7-000	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.
System Voltage Limit	Project-2015-09		5/13/2021	3/4/2022	4/1/2024	RD22-2-000	The maximum and minimum steady-state voltage limits (both normal and emergency) that provide for acceptable System performance.
Telemetry	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Thermal Rating	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							by overheating or before it sags to the point that it violates public safety requirements.
Tie Line	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A circuit connecting two Balancing Authority Areas.
Tie Line Bias	Project-2022-01	TLB	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A mode of Automatic Generation Control that allows the Balancing Authority to 1.) maintain its Interchange Schedule and 2.) respond to Interconnection frequency error.
Time Error	Project-2022-01	TE	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	The difference between the Interconnection time measured at the Balancing Authority(ies) and the time specified by the National Institute of Standards and Technology. The difference is caused by the accumulation of Frequency Error over a given period.
Time Error Correction	Project-2022-01	TEC	2/15/2024	4/29/2024	7/1/2025	RD24-6-000	A manual offset to the Interconnection's Scheduled Frequency to return the Interconnection's Time Error to a predetermined range.
TLR (Transmission Loading Relief) Log (NERC added the spelled out term for TLR Log for clarification purposes.)	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Total Flowgate Capability	Project 2006-07	TFC	8/22/2008	11/24/2009		RM08-19-000	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.
Total Internal Demand	Project 2010-04		5/6/2014	2/19/2015	7/1/2016	RM14-12-000	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

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							boundary of the metered system.
Total Transfer Capability	000 - Version 0 Reliability Standards	TTC	2/8/2005	3/16/2007		RM06-16-000	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.
Transaction	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	See Interchange Transaction.
Transfer Capability	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The measure of the ability of interconnected electric systems to move or transfer power <i>in a reliable manner</i> 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 <i>not g</i> generally equal to the transfer capability from "Area B" to "Area A."
Transfer Distribution Factor	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	See Distribution Factor.
Transient Cyber Asset	Project 2016-02	TCA	2/9/2017	4/19/2018	1/1/2020	RM24-8-000	A Cyber Asset that is: <ol style="list-style-type: none"> 1. capable of transmitting or transferring executable code, 2. not included in a BES Cyber System, 3. not a Protected Cyber Asset (PCA) associated with high or medium impact BES Cyber Systems, and 4. 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:

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
							<ul style="list-style-type: none"> • BES Cyber Asset, • network within an Electronic Security Perimeter (ESP) containing high or medium impact BES Cyber Systems, or • PCA associated with high or medium impact BES Cyber Systems. <p>Examples of Transient Cyber Assets include, but are not limited to, Cyber Assets used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.</p>
Transmission	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Transmission Constraint	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	A limitation on one or more transmission elements that may be reached during normal or contingency system operations.
Transmission Customer	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	<ol style="list-style-type: none"> 1. Any eligible customer (or its designated agent) that can or does execute a Transmission Service agreement or can or does receive Transmission Service. 2. Any of the following entities: Generator Owner, Load-Serving Entity, or Purchasing-Selling Entity.
Transmission Line	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	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.
Transmission Operator	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	The entity responsible for the reliability of its “local” transmission system, and that operates or directs the operations of the transmission Facilities.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Transmission Operator Area	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	The collection of Transmission assets over which the Transmission Operator is responsible for operating.
Transmission Owner	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	The entity that owns and maintains transmission Facilities.
Transmission Planner	Project 2015-04		11/5/2015	1/21/2016	7/1/2016	RD16-3-000	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.
Transmission Reliability Margin	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	The amount of transmission transfer capability necessary to 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.
Transmission Reliability Margin Implementation Document	Project 2006-07		8/22/2008	11/24/2009		RM08-19-000	A document that describes the implementation of a Transmission Reliability Margin methodology, and provides information related to a Transmission Operator's calculation of TRM.
Transmission Service	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	Services provided to the Transmission Customer by the Transmission Service Provider to move energy from a Point of Receipt to a Point of Delivery.
Transmission Service Provider	Project 2015-04	TSP	11/5/2015	1/21/2016	7/1/2016	RD16-3-000	The entity that administers the transmission tariff and provides Transmission Service to Transmission Customers under applicable Transmission Service agreements.
Undervoltage Load Shedding Program	Project 2008-02	UVLS Program	11/13/2014	11/19/2015	4/1/2017	RD15-5-000	An automatic load shedding program, consisting of distributed 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.

Subject to Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Filing/Order Docket Number	Definition
Vegetation	Project 2007-07		2/7/2006	3/16/2007		RM06-16-000	All plant material, growing or not, living or dead.
Vegetation Inspection	Project 2010-07		5/9/2012	3/21/2013	7/1/2014	RM12-16-000	The systematic examination of vegetation conditions on a Right-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.
Wide Area	000 - Version 0 Reliability Standards		2/8/2005	3/16/2007		RM06-16-000	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.
Year One	Project 2010-10		1/24/2011	11/17/2011		RM08-19-000	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 Load period for either 2012 or 2013

Pending Enforcement

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Definition
Distributed Energy Resource	Project 2022-02	DER	10/31/2025	2/19/2026	4/1/2026	A generator or energy storage technology connected to a distribution system that is capable of providing Real Power in non-isolated parallel operation with the Bulk-Power System, including one connected behind the meter of an end-use customer that is supplied from a distribution system.
Energy Reliability Assessment	Project 2022-03	ERA	12/10/2024	2/26/2025	10/1/2026	Assessment of the resources necessary to reliably supply the Electrical Energy required to serve Demand and to provide Operating Reserves for the Bulk Power System throughout the associated assessment period.
Extreme Temperature Assessment	Project 2023-07		12/10/2024	2/20/2025	4/1/2026	Documented evaluation of future Bulk Electric System performance for extreme heat and extreme cold benchmark temperature events.
Model Validation	Project 2020-06 and Project 2021-01		8/14/2025	2/19/2026	4/1/2026	The process of comparing simulation results with measurements to assess how closely a model's behavior matches the measured behavior.
Model Verification	Project 2020-06		8/14/2025	2/19/2026	4/1/2026	The process of confirming that model structure and parameter values are representative of the equipment or facility design and settings by reviewing equipment or facility design and settings documentation.
Near-Term Energy Reliability Assessment	Project 2022-03		12/10/2024	2/26/2025	10/1/2026	An Energy Reliability Assessment with an assessment period that begins no later than two days after the operating day and has a minimum duration of five days and a maximum duration of six weeks.

Filed and Pending Regulatory Approval

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Definition
BES Cyber Asset	Project 2016-02	BCA	5/9/2024			A Cyber Asset or Virtual Cyber Asset that, if rendered unavailable, degraded, or misused would, within 15 minutes of its required operation, misoperation, 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 (BES). 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.
BES Cyber System	Project 2016-02	BCS	5/9/2024			<i>Update to Acronym only</i> One or more BES Cyber Assets logically grouped by a responsible entity to perform one or more reliability tasks for a functional entity.
BES Cyber System Information	Project 2016-02	BCSI	5/9/2024			Information about the BES Cyber System (BCS) that could be used to gain unauthorized access or pose a security threat to the BCS. BES Cyber System Information (BCSI) 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 BCS, such as, but not limited to, device names, individual IP addresses without context, Electronic Security Perimeter names, or policy statements. Examples of BCSI may include, but are not limited to, security procedures or security information about BCS, Shared Cyber Infrastructure, 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 BCS.
CIP Senior Manager	Project 2016-02		5/9/2024			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 Critical Infrastructure Protection Cyber Security Standards.
Control Center	Project 2021-03		12/10/2024			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. OR One or more facilities of a Transmission Owner that have the capability to

Filed and Pending Regulatory Approval

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Definition
						control transmission Facilities at two or more locations in real-time using Supervisory Control and Data Acquisition (SCADA), including their associated data centers, and excluding field Cyber Assets used for telemetry.
Cyber Assets	Project 2016-02		5/9/2024			Programmable electronic devices, excluding Shared Cyber Infrastructure, including the hardware, software, and data in those devices. Application containers are considered software of Virtual Cyber Assets (VCAs) or Cyber Assets. VCAs are not considered software or data of Cyber Assets.
Cyber Security Incident	Project 2016-02		5/9/2024			A malicious act or suspicious event that: <ul style="list-style-type: none"> • For a high or medium impact BES Cyber System (BCS), compromises or attempts to compromise (1) an Electronic Security Perimeter, (2) a Physical Security Perimeter, (3) an Electronic Access Control or Monitoring Systems; or (4) Shared Cyber Infrastructure; or • Disrupts or attempts to disrupt the operation of a BCS.
Cyber System (New Definition)	Project 2016-02		5/9/2024			One or more Cyber Assets, Virtual Cyber Assets, or Shared Cyber Infrastructure.
Electronic Access Control or Monitoring Systems	Project 2016-02	EACMS	5/9/2024			Cyber System(s) that perform electronic access control or electronic access monitoring of the Electronic Security Perimeter(s) (ESP) or BES Cyber Systems (BCS), including those not protected by an ESP used by the responsible entity to convert routable protocol communications to non-routable communications to a BCS.
Electronic Access Point	Project 2016-02	EAP	5/9/2024			An electronic policy enforcement point or a Cyber Asset interface on an Electronic Access Control or Monitoring Systems that controls routable communication to and from one or more BES Cyber Systems or their associated Protected Cyber Assets.
External Routable Connectivity	Project 2016-02	ERC	5/9/2024			The ability to access a BES Cyber System through its Electronic Security Perimeter via a bi-directional routable protocol connection.
Electronic Security Perimeter	Project 2016-02	ESP	5/9/2024			The logical border surrounding a network to which BES Cyber Systems are connected using a routable protocol; or a logical boundary defined by one or more Electronic Access Points.
Interactive Remote Access	Project 2016-02	IRA	5/9/2024			User-initiated electronic access by a person using a bidirectional routable protocol: <ul style="list-style-type: none"> • To a Cyber System protected by an Electronic Security Perimeter(s) (ESP); • That is converted by the responsible entity to a non-routable protocol that allows access to a Cyber System; or • To a Management Interface.

Filed and Pending Regulatory Approval

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Definition
						Interactive Remote Access does not include: <ul style="list-style-type: none"> • Communication that originates from a Cyber System protected by any of the Responsible Entity’s ESPs; or • System-to-system process communication.
Intermediate System	Project 2016-02		5/9/2024			One or more Electronic Access Control or Monitoring Systems that are used to restrict Interactive Remote Access to only authorized users.
Management Interface (New Definition)	Project 2016-02		5/9/2024			An administrative interface that: <ul style="list-style-type: none"> • Controls the processes of initializing, deploying, and configuring Shared Cyber Infrastructure; • Is an autonomous subsystem that provides access to the console independently of the host system’s CPU, firmware, and operating system; or • Configures an Electronic Access Point.
Physical Access Control Systems	Project 2016-02	PACS	5/9/2024			Cyber Systems that control, alert, or log access to the Physical Security Perimeter(s) (PSP), exclusive of locally mounted hardware or devices at the PSP such as motion sensors, electronic lock control mechanisms, and badge readers.
Physical Security Perimeter	Project 2016-02	PSP	5/9/2024			The physical border surrounding locations in which BES Cyber Assets, BES Cyber Systems, Shared Cyber Infrastructure, or Electronic Access Control or Monitoring Systems reside, and for which access is controlled.
Protected Cyber Asset	Project 2016-02	PCA	5/9/2024			One or more Cyber Assets or Virtual Cyber Assets (VCA) that: <ul style="list-style-type: none"> • Are protected by an Electronic Security Perimeter (ESP) but are not part of the highest impact BES Cyber System (BCS) protected by the same ESP; or • Share CPU resources or memory resources with any part of the BCS, excluding VCA that are being actively remediated in an environment that isolates routable connectivity from BCS; Excluding Transient Cyber Assets.
Removable Media	Project 2016-02		5/9/2024			Storage media that (i) are not Cyber Assets or Shared Cyber Infrastructure (SCI), (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, SCI, a network protected by an Electronic Security Perimeter, or a Protected Cyber Asset.
Reportable Cyber Security Incident	Project 2016-02		5/9/2024			A Cyber Security Incident that compromised or disrupted: <ul style="list-style-type: none"> • A BES Cyber System (BCS) that performs one or more reliability tasks of

Filed and Pending Regulatory Approval

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Definition
						a functional entity; <ul style="list-style-type: none"> • An Electronic Security Perimeter of a high or medium impact BCS; • An Electronic Access Control or Monitoring Systems of a high or medium impact BCS; or • Shared Cyber Infrastructure supporting a BCS.
Shared Cyber Infrastructure (New Definition)	Project 2016-02	SCI	5/9/2024			One or more programmable electronic devices, including the software that shares the devices' resources, that: <ul style="list-style-type: none"> • Hosts one or more Virtual Cyber Assets (VCA) included in a BES Cyber Systems (BCS) or their associated Electronic Access Control or Monitoring Systems (EACMS) or Physical Access Control Systems (PACS); and hosts one or more VCAs that are not included in, or associated with, BCS of the same impact categorization; or • Provides storage resources required for system functionality of one or more Cyber Assets or VCAs included in a BCS or their associated EACMS or PACS; and also for one or more Cyber Assets or VCAs that are not included in, or associated with, BCS of the same impact categorization. SCI does not include the supported VCAs or Cyber Assets with which it shares its resources.
Transient Cyber Asset	Project 2016-02	TCA	5/9/2024			A Cyber Asset or Virtual Cyber Asset (VCA) that is: <ol style="list-style-type: none"> 1. Capable of transmitting or transferring executable code; 2. Not included in a BES Cyber System (BCS); 3. Not a Protected Cyber Asset (PCA) associated with high or medium impact BCS; and 4. Connected for 30 consecutive calendar days or less: <ul style="list-style-type: none"> • On a network protected by an Electronic Security Perimeter containing high or medium impact BCS; or • Directly (e.g., using Ethernet, serial, Universal Serial Bus, or wireless including near field or Bluetooth communication) to a: <ul style="list-style-type: none"> ▪ BES Cyber Asset; ▪ Shared Cyber Infrastructure; or ▪ PCA associated with high or medium impact BCS. Virtual machines hosted on a physical Transient Cyber Asset (TCA) are treated as software on that physical TCA. Examples of TCAs include, but are not limited to, Cyber Assets or VCAs used for data transfer, vulnerability assessment, maintenance, or troubleshooting purposes.
Virtual Cyber	Project 2016-02	VCA	5/9/2024			A logical instance of an operating system or firmware, currently executing

Filed and Pending Regulatory Approval

Continent-wide Term	Link to Project Page	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Definition
Asset (New Definition)						on a virtual machine hosted on a BES Cyber Asset; Electronic Access Control or Monitoring System; Physical Access Control System; Protected Cyber Asset; or Shared Cyber Infrastructure (SCI). Virtual Cyber Assets (VCAs) do not include: <ul style="list-style-type: none"> • Logical instances that are being actively remediated in an environment that isolates routable connectivity from BES Cyber Systems; • Dormant file-based images that contain operating systems or firmware; or <ul style="list-style-type: none"> • SCI or Cyber Assets that host VCAs. Application containers are considered software of VCAs or Cyber Assets

NPCC Regional Definitions

Regional Term	Link to Implementation Plan	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
Current Zero Time	PRC-002-NPCC-1 Implementation Plan		11/4/2010	10/20/2011	10/20/2013		The time of the final current zero on the last phase to interrupt.
Generating Plant	PRC-002-NPCC-1 Implementation Plan		11/4/2010	10/20/2011	10/20/2013		One or more generators at a single physical location whereby any single contingency can affect all the generators at that location.

ReliabilityFirst Regional Definitions

Regional Term	Link to Implementation Plan	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
Resource Adequacy	BAL-502-RFC-02 Implementation Plan		8/5/2009	3/17/2011			The ability of supply-side and demand-side resources to meet the aggregate electrical demand (including losses)
Net Internal Demand	BAL-502-RFC-02 Implementation Plan		8/5/2009	3/17/2011			Total of all end-use customer demand and electric system losses within specified metered boundaries, less Direct Control Management and Interruptible Demand
Peak Period	BAL-502-RFC-02 Implementation Plan		8/5/2009	3/17/2011			A period consisting of two (2) or more calendar months but less than seven (7) calendar months, which includes the period during which the responsible entity's annual peak demand is expected to occur
Wind Generating Station	BAL-502-RFC-02 Implementation Plan		11/3/2011 (Board withdrew approval 11/7/2012)	3/17/2011			A collection of wind turbines electrically connected together and injecting energy into the grid at one point, sometimes known as a "Wind Farm."
Year One	BAL-502-RFC-02 Implementation Plan		8/5/2009	3/17/2011			The planning year that begins with the upcoming annual Peak Period

Texas RE Regional Definitions

Regional Term	Link to Implementation Plan	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
Frequency Measurable Event	BAL-001-TRE-1 Implementation Plan	FME	8/15/2013	1/16/2014	4/1/2014		<p>An event that results in a Frequency Deviation, identified at the BA's sole discretion, and meeting one of the following conditions:</p> <p>i) a Frequency Deviation that has a pre-perturbation [the 16-second period of time before t(0)] average frequency to post-perturbation [the 32- second period of time starting 20 seconds after t(0)] average frequency absolute deviation greater than 100 mHz (the 100 mHz value may be adjusted by the BA to capture 30 to 40 events per year).</p> <p>Or</p> <p>ii) a cumulative change in generating unit/generating facility, DC tie and/or firm load pre-perturbation megawatt value to post-perturbation megawatt value absolute deviation greater than 550 MW (the 550 MW value may be adjusted by the BA to capture 30 to 40 events per year).</p>
Governor			8/15/2013	1/16/2014	4/1/2014		The electronic, digital or mechanical device that implements Primary Frequency Response of generating units/generating facilities or other system elements.
Primary Frequency Response	BAL-001-TRE-1 Implementation Plan	PFR	8/15/2013	1/16/2014	4/1/2014		The immediate proportional increase or decrease in real power output provided by generating units/generating facilities and the natural real power dampening response provided by Load in response to system Frequency Deviations. This response is in the direction that stabilizes frequency.

WECC Regional Definitions

Regional Term	Link to Standards Under Development	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
Area Control Error*	WECC Regional Standards Under Development	ACE	3/12/2007	6/8/2007		3/31/2014	Means the instantaneous difference between net actual and scheduled interchange, taking into account the effects of Frequency Bias including correction for meter error.
Automatic Generation Control*	WECC Regional Standards Under Development	AGC	3/12/2007	6/8/2007			Means equipment that automatically adjusts a Control Area's generation from a central location to maintain its interchange schedule plus Frequency Bias.
Automatic Time Error Correction	WECC Regional Standards Under Development		3/26/2008	5/21/2009		3/31/2014	A frequency control automatic action that a Balancing Authority uses to offset its frequency contribution to support the Interconnection's scheduled frequency.
Automatic Time Error Correction	WECC Regional Standards Under Development		12/19/2012	10/16/2013	4/1/2014		The addition of a component to the ACE equation that modifies the control point for the purpose of continuously paying back Primary Inadvertent Interchange to correct accumulated time error.
Average Generation *	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Means the total MWh generated within the Balancing Authority Operator's Balancing Authority Area during the prior year divided by 8760 hours (8784 hours if the prior year had 366 days).
Business Day *	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Means any day other than Saturday, Sunday, or a legal public holiday as designated in section 6103 of title 5, U.S. Code.
Commercial Operation	WECC Regional Standards Under Development		10/29/2008	4/21/2011			Achievement of this designation indicates that the Generator Operator or Transmission Operator of the synchronous generator or synchronous condenser has received all approvals necessary for operation after completion of initial start-up testing.
Contributing Schedule	WECC Regional Standards Under Development		2/10/2009	3/17/2011		9/30/2019	A Schedule not on the Qualified Transfer Path between a Source Balancing Authority and a Sink Balancing Authority that contributes unscheduled flow across the Qualified Transfer Path.
Dependability-Based Misoperation	WECC Regional Standards Under Development		10/29/2008	4/21/2011			Is the absence of a Protection System or RAS operation when intended. Dependability is a component of reliability and is the measure of a device's certainty to operate when required.
Disturbance *	WECC Regional Standards Under Development		3/12/2007	6/8/2007		Retired	Means (i) any perturbation to the electric system, or (ii) the unexpected change in ACE that is caused by the sudden

WECC Regional Definitions

Regional Term	Link to Standards Under Development	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
	Development						loss of generation or interruption of load.
Extraordinary Contingency¹	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Shall have the meaning set out in Excuse of Performance, section B.4.c. language in section B.4.c: <i>means any act of God, actions by a non-affiliated third party, labor disturbance, act of the public enemy, war, insurrection, riot, fire, storm or flood, earthquake, explosion, accident to or breakage, failure or malfunction of machinery or equipment, or any other cause beyond the Reliability Entity's reasonable control; provided that prudent industry standards (e.g. maintenance, design, operation) have been employed; and provided further that no act or cause shall be considered an Extraordinary Contingency if such act or cause results in any contingency contemplated in any WECC Reliability Standard (e.g., the "Most Severe Single Contingency" as defined in the WECC Reliability Criteria or any lesser contingency).</i>
Frequency Bias *	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Means a value, usually given in megawatts per 0.1 Hertz, associated with a Control Area that relates the difference between scheduled and actual frequency to the amount of generation required to correct the difference.
Functionally Equivalent Protection System	WECC Regional Standards Under Development	FEPS	10/29/2008	4/21/2011			A Protection System that provides performance as follows: <ul style="list-style-type: none"> Each Protection System can detect the same faults within the zone of protection and provide the clearing times and coordination needed to comply with all Reliability Standards. Each Protection System may have different components and operating characteristics.
Generating Unit Capability *	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Means the MVA nameplate rating of a generator.
Non-spinning Reserve²	WECC Regional Standards Under Development		3/12/2007	6/8/2007		Retired	Means that Operating Reserve not connected to the system but capable of serving demand within a specified time, or

¹ FERC approved the WECC Tier One Reliability Standards in the Order Approving Regional Reliability Standards for the Western Interconnection and Directing Modifications, 119 FERC ¶ 61,260 (June 8, 2007). In that Order, FERC directed WECC to address the inconsistencies between the regional definitions and the NERC Glossary in developing permanent replacement standards. The replacement standards designed to address the shortcomings were filed with FERC in 2009.

² FERC approved the WECC Tier One Reliability Standards in the Order Approving Regional Reliability Standards for the Western Interconnection and Directing Modifications, 119 FERC ¶ 61,260 (June 8, 2007). In that Order, FERC directed WECC to address the inconsistencies between the regional definitions and the NERC Glossary in developing permanent replacement

WECC Regional Definitions

Regional Term	Link to Standards Under Development	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
	Development						interruptible load that can be removed from the system in a specified time.
Normal Path Rating *	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Is the maximum path rating in MW that has been demonstrated to WECC through study results or actual operation, whichever is greater. For a path with transfer capability limits that vary seasonally, it is the maximum of all the seasonal values.
Operating Reserve *	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Means that capability above firm system demand required to provide for regulation, load-forecasting error, equipment forced and scheduled outages and local area protection. Operating Reserve consists of Spinning Reserve and Nonspinning Reserve.
Operating Transfer Capability Limit *	WECC Regional Standards Under Development	OTC	3/12/2007	6/8/2007			Means the maximum value of the most critical system operating parameter(s) which meets: (a) precontingency criteria as determined by equipment loading capability and acceptable voltage conditions, (b) transient criteria as determined by equipment loading capability and acceptable voltage conditions, (c) transient performance criteria, and (d) post-contingency loading and voltage criteria.
Primary Inadvertent Interchange	WECC Regional Standards Under Development		3/26/2008	5/21/2009			The component of area (n) inadvertent interchange caused by the regulating deficiencies of the area (n).
Qualified Controllable Device	WECC Regional Standards Under Development		2/10/2009	3/17/2011		9/30/2019	A controllable device installed in the Interconnection for controlling energy flow and the WECC Operating Committee has approved using the device for controlling the USF on the Qualified Transfer Paths.
Qualified Path	WECC Regional Standards Under Development		2/7/2019	5/10/2019	10/1/2019		A transmission element, or group of transmission elements that has qualified for inclusion into the Western Interconnection Unscheduled Flow Mitigation Plan (WIUFMP).
Qualified Transfer Path	WECC Regional Standards Under Development		2/10/2009	3/17/2011		9/30/2019	A transfer path designated by the WECC Operating Committee as being qualified for WECC unscheduled flow mitigation.
Qualified Transfer Path Curtailment	WECC Regional Standards Under		2/10/2009	3/17/2011		9/30/2019	Each hour that a Transmission Operator calls for Step 4 or higher for one or more consecutive hours (See Attachment

standards. The replacement standards designed to address the shortcomings were filed with FERC in 2009.

WECC Regional Definitions

Regional Term	Link to Standards Under Development	Acronym	BOT Adoption Date	FERC Approval Date	Effective Date	Inactive Date	Definition
Event	Development						1 IRO-006-WECC-1) during which the curtailment tool is functional.
Relief Requirement	WECC Regional Standards Under Development		2/10/2009	3/17/2011		6/30/2014	The expected amount of the unscheduled flow reduction on the Qualified Transfer Path that would result by curtailing each Sink Balancing Authority's Contributing Schedules by the percentages listed in the columns of WECC Unscheduled Flow Mitigation Summary of Actions Table in Attachment 1 WECC IRO-006-WECC-1.
Relief Requirement	WECC Regional Standards Under Development		2/7/2013	6/13/2014	7/1/2014	9/30/2019	The expected amount of the unscheduled flow reduction on the Qualified Transfer Path that would result by curtailing each Sink Balancing Authority's Contributing Schedules by the percentages determined in the WECC unscheduled flow mitigation guideline.
Secondary Inadvertent Interchange	WECC Regional Standards Under Development		3/26/2008	5/21/2009			The component of area (n) inadvertent interchange caused by the regulating deficiencies of area (i).
Security-Based Misoperation	WECC Regional Standards Under Development		10/29/2008	4/21/2011			A Misoperation caused by the incorrect operation of a Protection System or RAS. Security is a component of reliability and is the measure of a device's certainty not to operate falsely.
Spinning Reserve ³	WECC Regional Standards Under Development		3/12/2007	6/8/2007		Retired	Means unloaded generation which is synchronized and ready to serve additional demand. It consists of Regulating reserve and Contingency reserve (as each are described in Sections B.a.i and ii).
Transfer Distribution Factor	WECC Regional Standards Under Development	TDF	2/10/2009	3/17/2011		9/30/2019	The percentage of USF that flows across a Qualified Transfer Path when an Interchange Transaction (Contributing Schedule) is implemented. [See the WECC Unscheduled Flow Mitigation Summary of Actions Table (Attachment 1 WECC IRO-006-WECC-1).]
WECC Table 2	WECC Regional Standards Under Development		3/12/2007	6/8/2007			Means the table maintained by the WECC identifying those transfer paths monitored by the WECC regional Reliability coordinators. As of the date set out therein, the transmission paths identified in Table 2 are as listed in Attachment A to this Standard.

³ FERC approved the WECC Tier One Reliability Standards in the Order Approving Regional Reliability Standards for the Western Interconnection and Directing Modifications, 119 FERC ¶ 61,260 (June 8, 2007). In that Order, FERC directed WECC to address the inconsistencies between the regional definitions and the NERC Glossary in developing permanent replacement standards. The replacement standards designed to address the shortcomings were filed with FERC in 2009.

Change History

Date	Action
2/27/2026	Moved: Model Validation and Model Verification to Pending Enforcement
2/19/2026	Moved: Distributed Energy Resource to Pending Enforcement
2/17/2026	Moved: Newly effective Generator Operator and Generator Owner terms to Subject to Enforcement and the inactive versions to Retired Terms Removed: Retired Terms
11/5/2025	Added: Distributed Energy Resource, Model Validation, and Model Verification to Filed and Pending Regulatory Approval
10/1/2025	Added: Generator Operator and Generator Owner to Pending Enforcement
10/1/2025	Moved: Generator Cold Weather Constraint to Subject to Enforcement and retired version to appropriate section
7/24/2025	Moved Ride-through to Subject to Enforcement
7/10/2025	Corrected: Reporting ACE definition Moved: All 2022-01 terms to Subject to Enforcement and retired terms to appropriate section
4/10/2025	Added: Generator Cold Weather Constraint to Filed and Pending Regulatory Approval
2/26/2025	Added: Control Center and Ride-through to Filed and Pending Regulatory Approval Moved: Energy Reliability Assessment, Extreme Temperature Assessment, and Near-Term Energy Reliability Assessment to Pending Enforcement
1/7/2025	Added: Extreme Temperature Assessment, Energy Reliability Assessment, and Near-Term Energy Reliability Assessment to Filed and Pending Regulatory Approval Moved: Inverter-Based Resource to Pending Enforcement
11/4/2024	Added: Inverter-Based Resource to Filed and Pending Regulatory Approval
11/4/2024	Moved: EOP-012-2 terms (Generator Cold Weather Critical Component, Fixed Fuel Supply Component, Generator Cold Weather Reliability Event, Generator Cold Weather Constraint) to Subject to Enforcement
8/27/2024	Added "Filed and Pending Regulatory Approval" Category and 2016-02 CIP Virtualization Terms
7/22/2024	Updated EOP-012-2 terms (Generator Cold Weather Critical Component, Fixed Fuel Supply Component, Generator Cold Weather Reliability Event, Generator Cold Weather Constraint) to Pending Enforcement
5/7/2024	Updated ACE Definition to Pending Enforcement 7/1/2024
4/1/2024	Moved; to Subject to Enforcement Tab: System Voltage Limit, System Operating Limit
12/1/2023	Added; Actual Frequency to Subject to Enforcement Tab
3/8/2023	Updated Effective Date to 10/1/2024 for: 1 Generator Cold Weather Critical Component 2 Extreme Cold Weather Temperature 3 Generator Cold Weather Reliability Event
12/21/2022	Updated; Generator Cold Weather Critical Component, Extreme Cold Weather Temperature, Generator Cold Weather Reliability Event
12/2/2022	Updated; Automatic Time Error Correction (ATEC)
3/29/2022	Added to Pending Enforcement System Voltage Limit and System Operating Limit
4/2/2021	Retired; moved to the Retired Terms Tab: Reportable Cyber Security Incident
3/31/2021	Retired; moved to the Retired Terms tab:
3/15/2021	Moved; to Subject to Enforcement Tab Operational Planning Analysis (OPA)

Change History

Date	Action
	Protections System Coordination Study 3 Real-time Assessment (RTA)
1/4/2021	Effective; moved to Subject to Enforcement Tab: Cyber Security Incident
1/4/2021	Retired; moved to the Retired Terms Tab: Cyber Security Incident
10/8/2020	Retired; moved to the Retired Terms tab. Automatic Generation Control Balancing Authority 3 Pseudo-Tie
5/29/2020	Updated effective date for Operational Planning Analysis (OPA), Protections System Coordination Study and Real-time Assessment (RTA) to 4/21/2021 per FERC/s April 17th Order extending effective dates due to COVID-19
2/24/2020	Added inactive Date to Qualified Transfer Path Curtailment Event, Contributing Schedule, Qualified Controllable Device, Relief Requirement and Transfer Distribution Factor
1/2/2020	Effective; moved to the Subject to Enforcement tab: Definition of Transient Cyber Asset (TCA) 2 Definition of Removable Media
1/2/2020	Retired; moved to the Retired Terms tab. Low Impact BES Cyber System Electronic Access Point (LEAP) Low Impact External Routable Connectivity (LERC) Transient Cyber Asset (TCA) 4 Removable Media
8/12/2019	Added revised definitions of Cyber Security Incident and Reportable Cyber Security Incident to the Pending Enforcement tab.
5/10/2019	Added Inactive Date to Qualified Transfer Path. Added Qualified Path definition and Effective Date
3/8/2019	Moved "Automatic Generation Control " "Balancing Authority" and "Pseudo-tie" to Subject to Enforcement tab
7/3/2018	Updated effective date for Operational Planning Analysis (OPA), Protections System Coordination Study and Real-time Assessment (RTA).
6/12/2018	Added revised definitions of Transient Cyber Asset and Removable Media to the Pending Enforcement tab.
1/31/2018	Fixed truncated definition for Texas RE term Primary Frequency Response
1/2/2018	Moved to Subject to Enforcement: Balancing Contingency Event; Contingency Event Recovery Period; Contingency Reserve; Contingency Reserve Restoration Period; Most Severe Single Contingency; Pre-Reporting Contingency Event ACE Value; Reportable Balancing Contingency Event; Reserve Sharing Group Reporting ACE Moved to Retired tab: Contingency Reserve; Reserve Sharing Group Reporting ACE
10/6/2017	Added the Effective date of Automatic Generation Control Pseudo-Tie and Balancing Authority
8/1/2017	Moved to Subject to Enforcement: Reporting Ace, Actual Frequency, Actual Net Interchange, Schedule Net Interchange, Interchange Meter Error Automatic Time Error Correction
7/24/2017	Updated project link for definitions related to Project 2014-02, board adopted 2/12/15.
7/14/2017	Updated project link to Remedial Action Scheme with an effective date of 4/1/17; Removeable Media link to project 2014-02.

Change History

Date	Action
7/3/2017	Moved 'Geomagnetic Disturbance Vulnerability Assessment or GMD Vulnerability Assessment' to Subject to Enforcement
6/15/2017	Readded 'Governor' and 'Primary Frequency Response' to Texas RE
4/4/2017	Moved to Subject to Enforcement: Energy Emergency, Remedial Action Scheme, Special Protection System and Under3 Voltage Load Shedding Program Moved terms inactive 3/31/17 to Retired tab
3/16/2017	Removed Pending Inactive tab; not necessary
3/10/2017	Added Pending Inactive tab
2/7/2017	Added Effective Dates for: Balancing Contingency Event, Most Severe Single Contingency (MSSC), Reportable Balancing Contingency Event, Contingency Event Recovery Period, Contingency Reserve Restoration Period, Pre-Reporting Contingency Event ACE Value, Reserve Sharing Group Reporting ACE Contingency Reserve
1/25/2017	Removed WECC terms 'Non-Spinning Reserve' and 'Spinning Reserve' per FERC Order No 789 Docket No RM13-13-000
1/6/2017	Moved the following terms from Pending Enforcement to Subject to Enforcement: Operational Planning Analysis, Real-time Assessment (Revised Definition)
1/5/2017	Formatting of Glossary of Terms updated.
12/12/16	Updated: 'Adverse Reliability Impact' from Pending to Retired. NERC withdrew the related petition 3/18/2015
11/28/16	Updated ReliabilityFirst - Wind Generating Station term to inactive
9/28/16	Updated CIP v 5 standards effective date from 4/1/2016 to 7/1/2016 per FERC Order 822
8/17/16	Board Adopted: Operational Planning Analysis and Real-time Assessment
7/13/16	Updated color coding of terms retired 6/30/2016 based on the terms becoming effective 7/1/2016.
6/24/16	FERC approved: Actual Frequency Actual Net Interchange Scheduled Net
	Interchange (NIS), Interchange Meter Error (IME), and Automatic Time Error Correction (ATEC)
	Reporting ACE: status updated
6/21/16	Correction: Reserve Sharing Group Reporting ACE, and Contingency Reserve changed to 11/5/2015 Board adoption date status
4/1/16	Effective: BES Cyber Asset, BES Cyber System, BES Cyber System Information, CIP Exceptional Circumstance, CIP Senior Manager, Cyber Assets, Cyber Security Incident, Dial-up Connectivity, Electronic Access Control or Monitoring Systems, Electronic Access Point, Electronic Security Perimeter, External Routable Connectivity, Interactive Remote Access, Intermediate System, Physical Access Control Systems, Physical Security Perimeter
3/31/16	Inactive: Critical Assets, Critical Cyber Assets, Cyber Assets, Cyber Security Incident, Electronic Security Perimeter, Physical Security Perimeter