

Proposed Revisions to the Glossary of Terms

Project 2015-04 – Alignment of Terms

#	Term	Existing Glossary definition	Redline of Glossary definition
4	Blackstart Resource	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.	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-Real and reactive-Reactive power-Power capability, frequency and voltage control, and that has been included in the Transmission Operator’s restoration plan.
6	Bulk-Power System	Bulk-Power System: 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.	Bulk- P ower System: (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. <u>(Note that the terms “Bulk-Power System” or “Bulk Power System” shall have the same meaning.)</u>

7	Cascading	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.	The uncontrolled successive loss of system-System elements <u>Elements</u> 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.
13	Distribution Provider	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.	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-distribution function at any voltage.
14	Element	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.	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-Element <u>Element</u> may be comprised of one or more components.
17	Generator Operator	The entity that operates generating unit(s) and performs the functions of supplying energy and Interconnected Operations Services.	The entity that operates generating Facility(ies) unit(s)- <u>Facility(ies) units</u> and performs the functions of supplying energy and Interconnected Operations Services.
18	Generator Owner	Entity that owns and maintains generating units.	Entity that owns and maintains generating Facility(ies) units. <u>Facility(ies) units.</u>

20	Interchange Authority	The responsible entity that authorizes implementation of valid and balanced Interchange Schedules between Balancing Authority Areas, and ensures communication of Interchange information for reliability assessment purposes.	The responsible entity that authorizes <u>the</u> implementation of valid and balanced Interchange Schedules between Balancing Authority Areas, and ensures communication of Interchange information for reliability assessment purposes.
24	Interconnected Operations Service	A service (exclusive of basic energy and transmission services) that is required to support the reliable operation of interconnected Bulk Electric Systems.	A service (exclusive of basic energy and transmission <u>Transmission services</u> Services) that is required to support the reliable <u>Reliable operation</u> Operation of interconnected Bulk Electric Systems.
25	Interconnection	Effective beginning 7/1/16: When capitalized, any one of the four major electric system networks in North America: Eastern, Western, ERCOT and Quebec.	<u>A geographic area in which the operation of Bulk Power System components is synchronized such that the failure of one or more of such components may adversely affect the ability of the operators of other components within the system to maintain Reliable Operation of the Facilities within their control.</u> When capitalized, any one of the four major electric system networks in North America: Eastern, Western, ERCOT and Quebec.
28	Load-Serving Entity	Secures energy and transmission service (and related Interconnected Operations Services) to serve the electrical demand and energy requirements of its end-use customers.	Secures energy and transmission <u>Transmission service</u> Service (and related Interconnected Operations Services) to serve the electrical demand and energy requirements of its end-use customers.

31	Planning Authority	The responsible entity that coordinates and integrates transmission facility and service plans, resource plans, and protection systems.	The responsible entity that coordinates and integrates transmission facility <u>Facilities</u> and service plans, resource plans, and protection <u>Protection systems</u> <u>Systems</u> .
33	Point of Receipt	A location that the Transmission Service Provider specifies on its transmission system where an Interchange Transaction enters or a Generator delivers its output.	A location that the Transmission Service Provider specifies on its transmission system where an Interchange Transaction enters or a Generator <u>generator</u> delivers its output.
36	Reactive Power	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).	The portion of electricity that establishes and sustains the electric and magnetic fields of alternating-current equipment. Reactive power <u>Power</u> 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 <u>Power</u> 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).
37	Real Power	The portion of electricity that supplies energy to the load.	The portion of electricity that supplies energy to the load <u>Load</u> .
38	Reliability Coordinator	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	The entity that is the highest level of authority who is responsible for the reliable <u>Reliable operation</u> <u>Operation</u> 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

		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.	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.
40	Reliability Standard	A requirement, approved by the United States Federal Energy Regulatory Commission under this Section 215 of the Federal Power Act, or approved or recognized by an applicable governmental authority in other jurisdictions, to provide for reliable operation [Reliable Operation] of the bulk-power system [Bulk-Power System]. The term includes requirements for the operation of existing bulk-power system [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 [Reliable Operation] of the bulk-power system [Bulk-Power System], but the term does not include any requirement to enlarge such facilities or to construct new transmission capacity or generation capacity.	A requirement, approved by the United States Federal Energy Regulatory Commission under this Section 215 of the Federal Power Act, or approved or recognized by an applicable governmental authority in other jurisdictions, to provide for reliable operation [Reliable Operation] of the bulk-power system [Bulk-Power System]. The term includes requirements for the operation of existing bulk-power system [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 [Reliable Operation] of the bulk-power system [Bulk-Power System], but the term does not include any requirement to enlarge such facilities or to construct new transmission capacity or generation capacity.
41	Reliable Operation	Operating the elements of the bulk-power system [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.	Operating the elements of the bulk-power system [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.

42	Reserve Sharing Group	<p>A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of Disturbance Control Performance, the Areas become a Reserve Sharing Group.</p>	<p>A group whose members consist of two or more Balancing Authorities that collectively maintain, allocate, and supply operating reserves required for each Balancing Authority’s use in recovering from contingencies within the group. Scheduling energy from an Adjacent Balancing Authority to aid recovery need not constitute reserve sharing provided the transaction is ramped in over a period the supplying party could reasonably be expected to load generation in (e.g., ten minutes). If the transaction is ramped in quicker (e.g., between zero and ten minutes) then, for the purposes of Disturbance Control Performance, the Areas become a Reserve Sharing Group.</p>
43	Resource Planner	<p>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.</p>	<p>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.</p>
48	System Operating Limit	<p>The value (such as MW, MVar, Amperes, Frequency or Volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria. System Operating Limits are based upon certain operating criteria. These include, but are not limited to:</p> <ul style="list-style-type: none"> • Facility Ratings (Applicable pre- and post-Contingency equipment or facility ratings) 	<p>The value (such as MW, MVar, Amperes, Frequency or Volts) that satisfies the most limiting of the prescribed operating criteria for a specified system configuration to ensure operation within acceptable reliability criteria. System Operating Limits are based upon certain operating criteria. These include, but are not limited to:</p>

		<ul style="list-style-type: none"> • Transient Stability Ratings (Applicable pre- and post-Contingency Stability Limits) • Voltage Stability Ratings (Applicable pre- and post-Contingency Voltage Stability) • System Voltage Limits (Applicable pre- and post-Contingency Voltage Limits) 	<ul style="list-style-type: none"> • Facility Ratings (Applicable-applicable pre- and post-Contingency equipment <u>Equipment Ratings</u> or facility <u>Facility ratings</u><u>Ratings</u>) • Transient-transient <u>Stability-stability Ratings-ratings</u> (Applicable-applicable pre- and post-Contingency <u>Stability-stability Limits</u><u>limits</u>) • Voltage-voltage <u>Stability-stability Ratings-ratings</u> (Applicable-applicable pre- and post-Contingency <u>Voltage-voltage Stability</u><u>stability</u>) • System-system <u>Voltage-voltage Limits-limits</u> (Applicable-applicable pre- and post-Contingency <u>Voltage-voltage Limits</u><u>limits</u>)
49	Transmission Customer	<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 responsible entities: Generator Owner, Load-Serving Entity, or Purchasing-Selling Entity. 	<ol style="list-style-type: none"> 1. Any eligible customer (or its designated agent) that can or does execute a transmission <u>Transmission service</u> Service agreement or can or does receive transmission <u>Transmission service</u><u>Service</u>. 2. Any of the following responsible entities: Generator Owner, Load-Serving Entity, or Purchasing-Selling Entity.
50	Transmission Operator	The entity responsible for the reliability of its “local” transmission system, and that operates or directs the operations of the transmission facilities.	The entity responsible for the reliability of its “local” transmission system, and that operates or directs the operations of the transmission facilities <u>Facilities</u> .
51	Transmission Owner	The entity that owns and maintains transmission facilities.	The entity that owns and maintains transmission facilities <u>Facilities</u> .

52	Transmission Planner	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.	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 <u>area</u> .
54	Transmission Service Provider	The entity that administers the transmission tariff and provides Transmission Service to Transmission Customers under applicable transmission service agreements.	The entity that administers the transmission tariff and provides Transmission Service to Transmission Customers under applicable transmission <u>Transmission service</u> Service agreements.