Consultation on Proposed "Package 11" New, Amended and Removed Reliability Standards Definitions
Originally Proposed versus Final Proposed Versions

Definitions – New		
Existing	**Originally Proposed (2011-08-04)**	**Final Proposed (2011-10-20)**
No definition currently exists in the reliability standards.	"**aggregated generating facility**" means an aggregation of **generating units**, including any **reactive power** resources, which: (i) the **ISO** designates as an aggregated generating facility and publishes on a list posted on the AESO website; and (ii) are situated in the same proximate location at one or more **point of connections**.	"**aggregated generating facility**" means an aggregation of **generating units**, including any **reactive power** resources, which: (iii) the **ISO** designates as an aggregated generating facility ~~and publishes on a list posted on the AESO website~~; and (iv) are situated in the same proximate location at one or more **point of connections**.
	"**apparent power**" means the total power, in MVA, in an alternating current power system and is calculated as the vector sum of **real power** and **reactive power.**	"**apparent power**" means the total power, in MVA, in an alternating current power system and is calculated as the vector sum of **real power** and **reactive power.**
	"**business day**" means a **day** other than: (i) a holiday during which banks in Alberta are generally closed; (ii) Saturday; or (iii) Sunday.	"**business day**" means a **day** other than: (iv) a holiday during which banks in Alberta are generally closed; (v) Saturday; or (vi) Sunday.
	"**collector bus**" means the low voltage side of any step-up transformers connected to the **transmission system** where the **real power** and **reactive power** produced by any **generating units** or **reactive power** resources, or both of them, are collected.	"**collector bus**" means the low voltage side of any step-up transformers connected to the **transmission system** where the **real power** and **reactive power** produced by any **generating units** or **reactive power** resources, or both of them, are collected.

	"**generating unit**" as defined in the **Act** means the component of a power plant that produces, from any source, electric energy and **ancillary services**, and includes a share of the following associated facilities that are necessary for the safe, reliable and economic operation of the **generating uni**t, which may be used in common with other **generating units**: (i) fuel and fuel handling equipment; (ii) cooling water facilities; (iii) switch yards; (iv) other items.	"**generating unit**" as defined in the **Act** means the component of a power plant that produces, from any source, electric energy and **ancillary services**, and includes a share of the following associated facilities that are necessary for the safe, reliable and economic operation of the **generating uni**t, which may be used in common with other **generating units**: (v) fuel and fuel handling equipment; (vi) cooling water facilities; (vii) switch yards; (viii) other items.
	"**interconnected electric system**" as defined in the **Act** means all **transmission facilities** and all **electric distribution systems** in Alberta that are interconnected, but does not include an **electric distribution system** or a **transmission facility** within the service area of the City of Medicine Hat or a subsidiary of the City, unless the City passes a bylaw that is approved by the Lieutenant Governor in Council under section 138.	"**interconnected electric system**" as defined in the **Act** means all **transmission facilities** and all **electric distribution systems** in Alberta that are interconnected, but does not include an **electric distribution system** or a **transmission facility** within the service area of the City of Medicine Hat or a subsidiary of the City, unless the City passes a bylaw that is approved by the Lieutenant Governor in Council under section 138.
	"**ISO**" means the Independent System Operator as defined in the **Act** being the corporation established by section 7 of the **Act**.	"**ISO**" means the Independent System Operator as defined in the **Act** being the corporation established by section 7 of the **Act**.
	"**legal owner**" means the **person** who owns electric industry property including any one or more of: (i) a **generating unit**; (ii) any **aggregated generating facility**; (iii) a **transmission facility**; (iv) an **electric distribution system**; (v) an industrial system that has been designated as such by the **Commission**; and (vi) a **load** facility with **system access service** under subsection 101(2) of the **Act**.	"**legal owner**" means the **person** who owns electric industry property including any one or more of: (vii) a **generating unit**; (viii) any **aggregated generating facility**; (ix) a **transmission facility**; (x) an **electric distribution system**; (xi) an industrial system that has been designated as such by the **Commission**; and (xii) a **load** facility with **system access service** under subsection 101(2) of the **Act**.
	"**market participant**" as defined in the **Act** means: (i) any **person** that supplies, generates, transmits, distributes, trades, exchanges, purchases or sells electricity, electric energy, electricity services or **ancillary services**; or	"**market participant**" as defined in the **Act** means: (i) any **person** that supplies, generates, transmits, distributes, trades, exchanges, purchases or sells electricity, electric energy, electricity services or **ancillary services**; or

	(ii) any broker, brokerage or forward exchange that trades or facilitates the trading of electricity, electric energy, electricity services or **ancillary services**.	(ii) any broker, brokerage or forward exchange that trades or facilitates the trading of electricity, electric energy, electricity services or **ancillary services**.
	"**maximum authorized real power**" means: (i) for an **aggregated generating facility** with one or more **collector busses**, the sum of the maximum **gross real power** that the **ISO** has authorized the **generating units** to deliver to those **collector busses**; (ii) for an **aggregated generating facility** without a **collector bus**, the maximum **gross real power** that the **ISO** has authorized each **generating unit** to deliver to its generator terminal; or (iii) for a **generating unit** that is not part of an **aggregated generating facility**, the maximum **gross real power** that the **ISO** authorizes the **generating unit** to deliver to its generator terminal.	"**maximum authorized real power**" means: (iv) for an **aggregated generating facility** with one or more **collector busses**, the sum of the maximum **gross real power** that the **ISO** has authorized the **generating units** to deliver to those **collector busses**; (v) for an **aggregated generating facility** without a **collector bus**, the maximum **gross real power** that the **ISO** has authorized each **generating unit** to deliver to its generator terminal; or (vi) for a **generating unit** that is not part of an **aggregated generating facility**, the maximum **gross real power** that the **ISO** authorizes the **generating unit** to deliver to its generator terminal.
	"**operator**" means a **person** given expressed authority by a **legal owner** to operate on the **legal owner's** behalf any one or more of its electric industry properties, including: (i) a **generating unit**; (ii) any **aggregated generating facilities**; (iii) a **transmission facility**; (iv) an **electric distribution system**; (v) an industrial system that has been designated as such by the **Commission**; and (vi) a **load** facility with **system access service** under subsection 101(2) of the **Act**; and includes the **legal owner**, if no such other **person** has been so authorized.	"**operator**" means a **person** given expressed authority by a **legal owner** to operate on the **legal owner's** behalf any one or more of its electric industry properties, including: (vii) a **generating unit**; (viii) any **aggregated generating facilities**; (ix) a **transmission facility**; (x) an **electric distribution system**; (xi) an industrial system that has been designated as such by the **Commission**; and (xii) a **load** facility with **system access service** under subsection 101(2) of the **Act**; and includes the **legal owner**, if no such other **person** has been so authorized.
	"**power factor**" means the ratio of **real power** to **apparent power**.	"**power factor**" means the ratio of **real power** to **apparent power**.
	"**reactive power**" means the power, in MVAr, developed when there are inductive, capacitive or nonlinear elements in an alternating current power system and is calculated as the	"**reactive power**" means the power, in MVAr, developed when there are inductive, capacitive or nonlinear elements in an alternating current power system and is calculated as the

	vector difference between **apparent power** and **real power**.	vector difference between **apparent power** and **real power**.
	"**real power**" means the power, in MW, which does useful work and is developed when there are resistive elements in an electric power system.	"**real power**" means the power, in MW, which does useful work and is developed when there are resistive elements in an electric power system.
	"**transmission system**" as defined in the **Act** means all **transmission facilities** in Alberta that are a part of the **interconnected electric system**.	"**transmission system**" as defined in the **Act** means all **transmission facilities** in Alberta that are a part of the **interconnected electric system**.
Definitions - Amended		
Existing	**Originally Proposed (2011-08-04)**	**Final Proposed (2011-10-20)**
"**balancing authority area**" means the collection of generation, transmission and loads, within the metered boundaries of a **balancing authority area,** and supports **Interconnection** frequency in real-time.	"**balancing authority area**" means the collection of generation, transmission and **loads**, within the metered boundaries of thea **balancing authority** ~~**area,**~~ and for which the **balancing authority** maintains **load**-resource balance ~~and supports **Interconnection** frequency in real-time~~.	"**balancing authority area**" means the collection of generation, transmission and **loads**, within the metered boundaries of the **balancing authority** and for which the **balancing authority** maintains **load**-resource balance.
Definitions – Removed		
Existing	**Originally Proposed (2011-08-04)**	**Final Proposed (2011-10-20)**
"corrective action plan" means a list of actions and an associated timetable for implementation to remedy a specific problem.	~~**"corrective action plan"** means a list of actions and an associated timetable for implementation to remedy a specific problem.~~	~~**"corrective action plan"** means a list of actions and an associated timetable for implementation to remedy a specific problem.~~
"**facility**" means a set of electrical equipment that operates as a single **bulk electric system element**, including without limitation, a transmission line, generating unit, shunt compensator, or transformer.	~~"**facility**" means a set of electrical equipment that operates as a single **bulk electric system element**, including without limitation, a transmission line, generating unit, shunt compensator, or transformer.~~	~~"**facility**" means a set of electrical equipment that operates as a single **bulk electric system element**, including without limitation, a transmission line, generating unit, shunt compensator, or transformer.~~
"facility rating" means 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.	~~**"facility rating"** means 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.~~	~~**"facility rating"** means 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.~~

“frequency deviation” means a change in Interconnection frequency.	~~**“frequency deviation”** means a change in Interconnection frequency.~~	~~**“frequency deviation”** means a change in Interconnection frequency.~~
“high voltage direct current or **HVDC”** means a **high voltage direct current** power **transmission facility** that uses direct current to transfer power.	~~**“high voltage direct current** or **HVDC”** means a **high voltage direct current** power **transmission facility** that uses direct current to transfer power.~~	~~**“high voltage direct current** or **HVDC”** means a **high voltage direct current** power **transmission facility** that uses direct current to transfer power.~~
"**owner of industrial system**" means the owner of an industrial system designated as such by the **Commission** in accordance with the *Hydro and Electric Energy Act* and includes the operator of such system.	~~"**owner of industrial system**" means the owner of an industrial system designated as such by the **Commission** in accordance with the *Hydro and Electric Energy Act* and includes the operator of such system.~~	~~"**owner of industrial system**" means the owner of an industrial system designated as such by the **Commission** in accordance with the *Hydro and Electric Energy Act* and includes the operator of such system.~~
“rating” means the operational limits of a **transmission system** element under a set of specified conditions.	~~**“rating”** means the operational limits of a **transmission system** element under a set of specified conditions.~~	~~**“rating”** means the operational limits of a **transmission system** element under a set of specified conditions.~~
“schedule” means to set up a plan or arrangement for an **interchange** transaction.	~~**“schedule”** means to set up a plan or arrangement for an **interchange** transaction.~~	~~**“schedule”** means to set up a plan or arrangement for an **interchange** transaction.~~
“stability” means the ability of an electric **system** to maintain a state of equilibrium during normal and abnormal conditions.	~~**“stability”** means the ability of an electric **system** to maintain a state of equilibrium during normal and abnormal conditions.~~	~~**“stability”** means the ability of an electric **system** to maintain a state of equilibrium during normal and abnormal conditions.~~
“stability limit” means 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.	~~**“stability limit”** means 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.~~	~~**“stability limit”** means 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.~~
"**surge**" means transient variation of current, voltage, or power flow in an electrical circuit or across an electric system.	~~"**surge**" means transient variation of current, voltage, or power flow in an electrical circuit or across an electric system.~~	~~"**surge**" means transient variation of current, voltage, or power flow in an electrical circuit or across an electric system.~~
“system” means a combination of generation, transmission, and distribution of components.	~~**“system”** means a combination of generation, transmission, and distribution of components.~~	~~**“system”** means a combination of generation, transmission, and distribution of components.~~
“tie line” means a circuit connecting two balancing authority areas.	~~**“tie line”** means a circuit connecting two balancing authority areas.~~	~~**“tie line”** means a circuit connecting two balancing authority areas.~~
"**Transmission Maintenance and Inspection Plan**" or "**TMIP**" means a written plan for the regular and ongoing maintenance	~~"**Transmission Maintenance and Inspection Plan**" or "**TMIP**" means a written plan for the regular and ongoing maintenance~~	~~"**Transmission Maintenance and Inspection Plan**" or "**TMIP**" means a written plan for the regular and ongoing maintenance~~

of transmission facilities.	~~of transmission facilities.~~	~~of transmission facilities.~~
"transmission vegetation management plan" or **TVMP** means a plan for vegetation management work to ensure the **reliability** of electric transmission **systems**.	~~**"transmission vegetation management plan**" or **TVMP** means a plan for vegetation management work to ensure the **reliability** of electric transmission **systems**.~~	~~**"transmission vegetation management plan**" or **TVMP** means a plan for vegetation management work to ensure the **reliability** of electric transmission **systems**.~~