

Terms as used in Testimony	Description
ACSR	Aluminum Conductor Steel Reinforced; type of conductor or line
ADMS	Advanced Distribution Management System; a software platform that integrates numerous utility systems and provides automated outage restoration and optimization of distribution grid performance
Arrester	Device for taking extreme overvoltage off the system (Lightning)
Bare secondary wire	120/240 voltage wiring that does not have any insulating covering
Capacitor Bank	Equipment that supplies capacitance to the distribution system to increase Voltage and overall power delivery
Circuit Breaker	Device that interrupts fault current on the distribution or transmission system but does not have its own measurement or sensing of the fault but depends on signals from a relay
Connector	Makes an electrical and mechanical connection between two conductors
Covered conductor	Wire that has in insulating layer over the conductor but is not necessarily rated for insulating the voltage
Cross-arm	Wood/fiberglass arm mounted to the pole that holds the conductor
Cut-out	Device that holds a fuse and creates a visible open when fault current causes it to operate
Drone	Unmanned aerial reconnaissance vehicle, also referred to as a UAS (unmanned aerial system) or UAV (unmanned aerial vehicle)
Electro-mechanical relay	Device that has an operating mechanism of electro-magnetic forces and mechanical parts used to detect fault currents as part of system protection device
Feeder	A circuit from the substation that forms the high current carrying backbone of the distribution system
Fuse	A device that melts when subject to a fault current of sufficient magnitude
GIS	Geographic Information System used to map utility assets.
Guy	A steel wire at a pole that offsets the conductor tension where the conductor turns an angle or comes to an end
High impedance fault	A fault that has impedance sufficiently high with resulting low currents that cannot be easily detected by conventional protection equipment, such as when a conductor contacts a tree, structure, or ground
Insulator	A polymer or porcelain device that insulates the conductor from a structure or ground potential
Isolator	An insulator in a guy which breaks the conductive path of the steel wire
LIDAR	Light Detection and Ranging method for measuring distances by illuminating the target with laser light and measuring the

	reflection with a sensor. It is used to develop models used for engineering analysis
Microgrid	A complete source of power for the customer that is not dependent on receiving power from a utility distribution or transmission system
Micro-processor-based relay	A voltage and current measuring device that does not use electro-mechanical parts to sense or measure voltage or current
Pole	The main component of the structure which raises the conductor and electrical equipment off the ground
PSPS	Public Safety Power Shutoff; proactive de-energization of utility assets
Recloser	Device that interrupts fault current on the transmission or distribution system and includes its own measurement and sensing of the fault.
Relay	A sensing and measurement device either solid state or electro-mechanical that works to operate equipment or do measurement
SCADA	Supervisory Control and Data Acquisition used to remotely monitor and operate the system
Secondary conductor	Conductor that has customer level voltage
Sectionalizer	A device that will open an electrical circuit when the voltage and current are at zero
Single phase	A conductor or piece of equipment that operates with only one energized conductor being present
Small conductor	Conductor of a smaller size than the conductor sizes currently used for feeders, typically found on feeders older than 70 years old and made of copper
Splice	Connection between two conductors. Term usually used for two conductor ends being butted together
Substation	The point of connection and isolation between the transmission system and the distribution system which lowers the voltage to the transmission level and the distribution level - location where feeder for the distribution system begin
Three phase	Conductors or piece of equipment that operates with only three energized conductors being present.
Transformer	A device that transforms a voltage from a higher voltage to a lower voltage
UAS	Unmanned aerial system or drone
Wildfire modeling software	Software that combines, fuel, terrain, wind, moisture, structures density population and other parameters to estimate fire spread and risk to an area of the distribution system

Attachment SLJ-4 Commonly Used Technical Terms