

## H. Glossary / Acronyms

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### H.1 Glossary of Terms

**Alternating current.** An electric current that reverses direction in a circuit at regular intervals.

**Ambient.** Surrounding on all sides.

**Baseflow.** Groundwater seepage into a stream channel.

**Ampere.** A unit of electric current in the meter-kilogram-second system.

**Bar.** Accumulations of bed material (in a stream or river) positioned successfully downstream on the opposite side of the channel.

**Baseline.** A set of existing conditions against which change is to be described and measured.

**Circuit.** An electrical device that provides a path for electrical current to flow.

**Conductor.** A substance or medium (wire) that conducts an electrical charge.

**Current.** The amount of electric charge flowing past a specified circuit point per unit time.

**Decibel.** A unit used to express relative difference in power or intensity, usually between two acoustic or electric signals. The A-weighted decibel scale (dBA) represents the relative insensitivity of the human ear to low-pitched sounds; decibels are logarithmic units that compare the wide range of sound intensities to which the human ear is sensitive.

**Dielectric.** A material such as glass or porcelain with negligible electrical or thermal conductivity. A dielectric is an electrical insulator that is highly resistant to flow of electrical current.

**Direct current.** An electrical current flowing in one direction only.

**Ephemeral stream.** A stream or reach of a channel that flows only in direct response to precipitation in the immediate locality and is at all times above the saturation zone.

**Hertz.** A unit of frequency equal to one cycle per second.

**Hoop strength.** A physical property that describes the ability of a tube to withstand internal pressure, bending forces, and crushing forces.

**Hydrologic cycle.** The hydrologic cycle refers to the continuous exchange of water between atmosphere, land, surface and subsurface waters, and organisms.

**Insulator.** A material such as glass or porcelain with negligible electrical or thermal conductivity.

**Kilohertz.** A unit of alternating current or electromagnetic wave frequency equal to one thousand hertz (1,000 Hz).

**Kilovolt.** A unit of electromotive force equal to 1,000 volts.

**Kilowatt.** A unit of power equal to 1,000 watts.

**Megawatt.** A unit of power equal to one million watts.

**National Forest System lands.** Lands owned and managed by the USDA Forest Service.

**Polyethylene.** A lightweight thermoplastic.

**Pool.** Deep zones (in a stream or river) located directly opposite from bars.

**Remedial Action Scheme (RAS).** A protection system, or plan of action, which automatically initiates one or more remedial actions to ensure transmission system reliability. Also called Special Protection System (SPS).

**Riffle.** Shallow zones (in a stream or river) between pools.

**Right-of-way (ROW).** The strip of land over which facilities such as power lines are built.

**Riparian.** Area along the banks of a river or lake supporting specialized plant and animal species.

**Saturation zone.** area of ground with ground water: the zone below the water table that is saturated with ground water.

**Seismicity.** The relative frequency and distribution of earthquakes.

**Special Protection Scheme (SPS).** A protection system, or plan of action, which automatically initiates one or more remedial actions to ensure transmission system reliability. Also called Remedial Action Scheme (RAS).

**Substation.** A subsidiary station where electricity is transformed for distribution by a low-voltage network.

**Substrate.** Geologic term describing soil or geologic layers underlying the ground surface.

**Terrestrial.** Related to or living on land. Terrestrial biology deals with upland areas as opposed to shorelines or coastal habitats.

**Tributary.** A stream that flows into a larger stream or other body of water.

**Voltage.** The rate at which energy is drawn from a source that produces a flow of electricity in a circuit, expressed in volts.

**Watershed.** The area contained within a drainage divide above a specified point on a stream.

**Williamson Act.** Also California Land Conservation Act of 1965.

## H.2 Acronyms

### 2B

Two-conductor bundled

### A

Amperes

### AA

Annual Average Daily Traffic

### AAQ

Ambient Air Quality Standards

### AC

Alternating Current

### ACEC

Area of Critical Environmental Concern

### ACI

American Concrete Institute

### ACSR

Aluminum Conductor Steel Reinforced

### ADT

Average daily traffic/trips

### AHM

Acutely Hazardous Material

### AISC

American Institute of Steel Construction

### AMNH

American Museum of Natural History

### ANF

Angeles National Forest

### ANSI

American National Standards Institute

### APA

Administrative Procedures Act

### APCD

Air Pollution Control District

### APEFZ

Alquist-Priolo Earthquake Fault Zone

### API

American Petroleum Institute

### APM

Applicant-Proposed Measure

### AQMD

Air Quality Management District

**AQMP**

Air Quality Management Plans

**AQRV**

Air Quality-Related Values

**ARB**

Air Resources Board

**ARP**

Accidental Release Plan

**ASCE**

American Society of Civil Engineers

**ASI**

Archaeological Sensitivity Index

**ASL or asl**

Above sea level

**ASME**

American Society of Mechanical Engineers

**ASTM**

American Society for Testing Materials

**AVAQMD**

Antelope Valley Air Quality Management District

**AVEK**

Antelope Valley – East Kern Water Agency

**AVSD**

Antelope Valley School District

**AVTA**

Antelope Valley Transit Authority

**AWG**

American Wire Gauge

**AWS**

American Welding Society

**BLM**

Bureau of Land Management

**BMP**

Best Management Practices

**BPA**

Bonneville Power Administration

**CAA**

Clean Air Act (Federal)

**CAAQS**

California Ambient Air Quality Standards

**CAISO**

California Independent System Operator

**CalARP**

California Accidental Release Prevention (Program)

**Cal-EPA**

California Environmental Protection Agency

**CalOSHA**

California Occupational Safety and Health Administration

**CAR**

Center for Archaeological Research

**CARB**

California Air Resources Board

**CBC**

California Building Code

**CCAA**

California Clean Air Act

**CCR**

California Code of Regulations

**CDFG**

California Department of Fish and Game

**CDMG**

California Division of Mines and Geology

**CDOC**

California Department of Conservation

**CDOG**

California Division of Oil and Gas

**CEC**

California Energy Commission

<b>CEQ</b> Council on Environmental Quality	<b>CNPS</b> California Native Plant Society
<b>CEQA</b> California Environmental Quality Act	<b>CO</b> Carbon monoxide
<b>CERCLA</b> Comprehensive Environmental Response, Compensation and Liability Act (“Superfund”)	<b>CO2</b> Carbon dioxide
<b>CDF</b> California Department of Forestry and Fire Protection	<b>COE</b> Corps of Engineers, U.S. Army (see also <b>USACE</b> and <b>USACOE</b> )
<b>CFM</b> Cubic feet per minute	<b>CPCN</b> Certificate of Public Convenience and Necessity
<b>CFR</b> Code of Federal Regulations	<b>CPUC</b> California Public Utilities Commission
<b>CFS</b> Cubic feet per second	<b>CRA</b> Colorado River Aqueduct
<b>CGS</b> California Geographical Survey	<b>CRHR</b> California Register of Historic Resources
<b>CGTL</b> Compressed Gas Insulated Transmission Lines	<b>CSUB</b> California State University, Bakersfield
<b>CHP</b> California Highway Patrol	<b>CSUF</b> California State University, Fullerton
<b>CHRIS</b> California Historical Resources Information System	<b>CWA</b> Clean Water Act
<b>CHSC</b> California Health and Safety Code	<b>dB</b> Decibels
<b>CLCA</b> California Land Conservation Act of 1965	<b>dba</b> A-weighted decibel
<b>CLWA</b> Castaic Lake Water Agency	<b>DC</b> Direct current
<b>CNDDDB</b> California Natural Diversity Data Base	<b>DDE</b> Dichlorodiphenyldichloroethylene
<b>CNEL</b> Community Noise Equivalent Level	<b>DDT</b> Dichlorodiphenyltrichloroethane

**DG**

Distributed generation

**DHS**

California Department of Health Services

**DOSH**

Division of Occupational Safety and Health

**DOT**

Department of Transportation

**DRR**

District Ranger's Representative

**DSM**

Demand-side management

**DTSC**

Department of Toxic Substances Control

**DWR**

Department of Water Resources

**EA**

Environmental Assessment (NEPA)

**EDD**

State of California Employment Development  
Department

**EERI**

Earthquake Engineering Research Institute

**EHV**

Electric high-voltage

**EIR**

Environmental Impact Report

**EIS**

Environmental Impact Study

**EMF**

Electric and Magnetic Fields

**ELF**

Extremely Low Frequency

**EPA**

U.S. Environmental Protection Agency

**EPR**

Ethylene propylene rubber (used for cable  
insulation)

**EPRI**

Electric Power Research Institute

**ESA**

Environmental Site Assessment

**FAA**

Federal Aviation Administration

**FCC**

Federal Communication Commission

**FEMA**

Federal Emergency Management Agency

**FERC**

Federal Energy Regulatory Commission

**FIRMs**

Flood Insurance Rate Maps

**FLM**

Federal Land Manager

**FLMPA**

Federal Land Management and Policy Act

**FMMP**

Farmland Mapping and Monitoring Program

**FONSI**

Finding of No Significant Impact (NEPA)

**Forest Service**

United States Department of Agriculture Forest  
Service

**Fox Airfield**

General William J. Fox Airfield

**FPPA**

Farmland Protection Policy Act

**FPRP**

Fire Prevention and Response Plan

**FWS**

United States Fish and Wildlife Service

**g**

gravity

**GEP**

Good Engineering Practice

**GIS**

Geographic Information System

**GO**

General Order (CPUC)

**gpd**

Gallons per day

**gpm**

Gallons per minute

**gps**

Gallons per second

**GPS**

Global Positioning System

**HCP**

Habitat Conservation Plan

**HMMP**

Hazardous Materials Management Plan

**HPFF**

High-Pressure Fluid-Filled

**Hz**

Hertz

**I-5**

Interstate Highway 5

**IARC**

International Agency for Research on Cancer

**IEEE**

Institute of Electrical and Electronics Engineers

**IIPP**

Injury and Illness Prevention Program

**IPCEA**

Insulated Power Cable Engineers Association

**IPP**

Independent Power Producers

**kcMil**

1,000 circular mills (unit of area)

**KCPD**

Kern County Planning Department

**kHz**

Kilohertz

**KOP**

Key Observation Point

**kV**

Kilovolt

**kV/m**

Kilovolts per meter

**KVA**

Key Viewing Area

**kVA**

Kilovolt amperes

**kW**

Kilowatt

**LAA**

Los Angeles Aqueduct

**LACDPW**

Los Angeles County Department of Public Works

**LACFD**

Los Angeles County Fire Department

**LACSD**

Los Angeles County Sheriff's Department

<b>LADWP</b> Los Angeles Department of Water and Power	<b>mg/L</b> Milligram per liter
<b>Ldn</b> Day-night level (of noise)	<b>MGD</b> Million gallons/per day
<b>Leq</b> Equivalent level (of noise)	<b>MMCRP</b> Mitigation, Monitoring, Compliance, and Reporting Program
<b>LESA</b> Land Evaluation and Site Assessment (for use with FPPA compliance)	<b>MOS</b> Method of Service
<b>LESD</b> Lancaster Elementary School District	<b>MOU</b> Memorandum of Understanding
<b>Lmax</b> Maximum level (of noise)	<b>MP</b> Milepost
<b>LMP</b> Land Management Plan	<b>MSDS</b> Material Safety Data Sheet
<b>LORS</b> Laws, Ordinances, Regulations, and Standards	<b>msl</b> mean sea level
<b>LOS</b> Level of Service	<b>MW</b> Megawatt
<b>LST</b> Lattice steel tower	<b>MWD</b> Metropolitan Water District of Southern California
<b>M</b> Moment Magnitude	<b>N<sub>2</sub></b> Nitrogen gas
<b>mA</b> Milliamperes (unit of electric current)	<b>NAAQS</b> National Ambient Air Quality Standards
<b>MCE</b> Maximum considered earthquake	<b>NAHC</b> Native American Heritage Commission
<b>MCL</b> Maximum containment level	<b>NCIC</b> North Central Information Center
<b>MDAB</b> Mojave Desert Air Basin	<b>NEC</b> National Electric Code
<b>MEER</b> Mechanical Electrical Equipment Room	<b>NEPA</b> National Environmental Policy Act
<b>mG</b> Milligauss (unit of magnetic field strength)	

**NERC**  
North American Electric Reliability Council

**NESC**  
National Electrical Safety Code

**NFMA**  
National Forest Management Act

**NFP**  
National Fire Plan

**NFS**  
National Forest System

**NHPA**  
National Historic Preservation Act

**NIEHS**  
National Institute of Environmental Health Sciences

**NOI**  
Notice of Intent

**NOX**  
Nitrogen oxide

**NPDES**  
National Pollutant Discharge Elimination System

**NRC**  
U.S. Nuclear Regulatory Commission

**NRCS**  
National Resources Conservation Service (formerly Soil Conservation Service, [SCS])

**NRHP**  
National Register of Historic Places

**OES**  
Office of Emergency Services

**OHL**  
Overhead line

**OHP**  
Office of Historic Preservation

**OHW**  
Ordinary High Water

**OPGW**  
Optical Ground Wire

**ORV**  
Off-road recreational vehicle

**OSHA**  
Occupational Safety and Health Administration

**Pb**  
Lead

**PCT**  
Pacific Crest National Scenic Trail

**PEA**  
Proponent's Environmental Assessment

**PERP**  
Portable equipment registration program

**PGA**  
Peak Ground Acceleration

**PM10**  
Particulate matter smaller than 10 microns

**ppm**  
Parts per million

**PPP**  
Polypropylene-paper, or high-quality kraft paper

**Project**  
Antelope-Pardee 500-kV Transmission Project

**proposed Project**  
Antelope-Pardee 500-kV Transmission Project

**PSD**  
Prevention of Significant Deterioration

**PSHA**  
Probabilistic Seismic Hazards Assessment



<b>psi</b> Pounds per square inch	<b>SCAQMD</b> South Coast Air Quality Management District
<b>psig</b> Pounds per square inch gage	<b>SCE</b> Southern California Edison
<b>Qal</b> Quaternary alluvium	<b>SCFF</b> Self-contained fluid-filled
<b>RAS</b> Remedial Action Scheme	<b>SCREMP</b> Santa Clara River Enhancement and Management Plan
<b>RCRA</b> Resource Conservation and Recovery Act	<b>SCS</b> Soil Conservation Service (see NRCS)
<b>RCTP</b> Renewable Conceptual Transmission Plan	<b>SCT</b> Santa Clarita Transit
<b>RHNA</b> Regional Housing Needs Assessment	<b>SDLAC</b> Sanitation Districts of Los Angeles County
<b>ROD</b> Record of Decision (NEPA)	<b>SERRF</b> Southeast Resource Recovery Facility
<b>ROW</b> Right-of-way	<b>SF6</b> Sulfur hexafluoride insulating medium
<b>RPS</b> Renewable Portfolio Standard	<b>SHMP</b> Seismic Hazards Mapping Program
<b>RWQCB</b> Regional Water Quality Control Board	<b>SHPO</b> State Historic Preservation Office
<b>SAC</b> Stranded Aluminum Conductor	<b>SIO</b> Scenic Integrity Objective
<b>SBNF</b> San Bernardino National Forest	<b>SLR</b> Single Lens Reflex
<b>SCAB</b> South Coast Air Basin	<b>SMARA</b> California Surface Mining Act of 1975
<b>SCADA</b> Supervisory Control and Data Acquisition	<b>SO2</b> Sulfur dioxide
<b>SCAG</b> Southern California Association of Governments	<b>SOW</b> Scope of Work
	<b>SPS</b> Special Protection Scheme

**SR-14/126**  
State Route 14/126

**SRA**  
State Responsibility Areas

**SWP**  
State Water Project

**SWPPP**  
Storm Water Pollution Prevention Plan

**SWRCB**  
State Water Resources Control Board

**T/L**  
Transmission line

**TAC**  
Toxic air containment

**TBD**  
To be determined

**TCP**  
Traffic Control Plan

**TCSG**  
Tehachapi Collaborative Study Group

**TDS**  
Total dissolved solids

**TSP**  
Tubular steel pole

**TVI**  
Television interference

**UBC**  
Uniform Building Code

**UCMP**  
University of California Museum of  
Paleontology

**UFC**  
Uniform Fire Code

**UMC**  
Uniform Mechanical Code

**UPC**  
Uniform Plumbing Code

**USACE**  
Corps of Engineers, U.S. Army (see also **COE**  
and **USACOE**)

**USACOE**  
Corps of Engineers, U.S. Army (see also **COE**  
and **USACE**)

**USC**  
United States Code

**USDA**  
United States Department of Agriculture

**USDI**  
United States Department of the Interior

**USDOT**  
United States Department of Transportation

**USEPA**  
United States Environmental Protection Agency

**USFS**  
United States Forest Service

**USFWS**  
United States Fish and Wildlife Service

**USGS**  
United States Geological Survey

**UWCD**  
United Water Conservation District

**V/m**  
Volt per meter

**VAC**  
Volts AC (alternating current)

**VAR**  
Volt-amperes reactive

**VDC**

Volts DC (direct current)

**VM**

Visual Modification (Class)

**VOC**

Volatile organic compounds

**VQO**

Visual Quality Objective

**VRM**

Visual resource management

**WAN**

Wide Area Network

**WATCH**

Work Area Traffic Control Handbook

**WECC**

Western Electricity Coordinating Council

**WRCC**

Western Regional Climate Center

**WSCC**

Western Systems Coordinating Council

**XLPE**

Solid Dielectric Cross-linked Polyethylene