

H. Glossary / Acronyms

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

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

LADWP
Los Angeles Department of Water and Power

Ldn
Day-night level (of noise)

Leq
Equivalent level (of noise)

LESA
Land Evaluation and Site Assessment (for use with FPPA compliance)

LESD
Lancaster Elementary School District

Lmax
Maximum level (of noise)

LMP
Land Management Plan

LORS
Laws, Ordinances, Regulations, and Standards

LOS
Level of Service

LST
Lattice steel tower

M
Moment Magnitude

mA
Milliamperes (unit of electric current)

MCE
Maximum considered earthquake

MCL
Maximum containment level

MDAB
Mojave Desert Air Basin

MEER
Mechanical Electrical Equipment Room

mG
Milligauss (unit of magnetic field strength)

mg/L
Milligram per liter

MGD
Million gallons/per day

MMCRP
Mitigation, Monitoring, Compliance, and Reporting Program

MOS
Method of Service

MOU
Memorandum of Understanding

MP
Milepost

MSDS
Material Safety Data Sheet

msl
mean sea level

MW
Megawatt

MWD
Metropolitan Water District of Southern California

N₂
Nitrogen gas

NAAQS
National Ambient Air Quality Standards

NAHC
Native American Heritage Commission

NCIC
North Central Information Center

NEC
National Electric Code

NEPA
National Environmental Policy Act

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

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

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