

12.1 GLOSSARY OF TERMS

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

Ambient. Of the surrounding area; surrounding on all sides.

Ambient noise level. The sound pressure level at a given location, normally specified as a reference level to study a new intrusive sound source.

Baseflow. Groundwater seepage into a stream channel.

Bundled conductor. A number of conductors in parallel. Bundled conductors are used to increase the amount of current that may be carried in a line.

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

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.

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 (kV). A unit of electromotive force equal to 1,000 volts.

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

Megawatt (MW). A unit of power equal to one million watts.

Polyethylene. A lightweight thermoplastic.

Remedial Action Scheme. 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.

Right-of-way (R-O-W). 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 of an electricity generation, transmission, and distribution system where voltage is transformed from high to low or the reverse using transformers.

Watershed. Area of land within which all waterways drain to one specified outlet, or body of water such as a river, lake, ocean, or wetland. Watersheds are separated topographically by areas of elevation, such as ridges, hills, or mountains.

12.2 LIST OF ACRONYMS

2B. Two-conductor bundled	APEFZ. Alquist-Priolo Earthquake Fault Zone
A. Amperes (unit of electrical current)	API. American Petroleum Institute
A.D. After Death, or Anno Domini	APLIC. Avian Power Line Interaction Committee
AADT. Annual average daily traffic	APMs. Applicant Proposed Measures
AAQS. Ambient air quality standards	AQAP. Air Quality Attainment Plan.
AB32. Assembly Bill 32	AQMD. Air Quality Management District
AC. Alternating current	AQMP. Air Quality Management Plan
ACEC. Area of critical environmental concern	AQRV. Air quality related values
ACI. American Concrete Institute	ARB. Air Resources Board
ACSR. Aluminum conductor steel reinforced	ASCE. American Society of Civil Engineers
ADSS. All-dielectric-self-supporting	ASI. Archaeological Sensitivity Index
ADT. Average daily traffic	ASL. Above sea level; see also msl (also asl)
AHM. Acutely hazardous material	ASME. American Society of Mechanical Engineers
AISC. American Institute of Steel Construction	ASTM. American Society for Testing Materials
AMNH. American Museum of Natural History	ATP. Antelope Transmission Project
ANF. Angeles National Forest	AVAQMD. Antelope Valley Air Quality Management District
ANSI. American National Standards Institute	AVEK. Antelope Valley – East Kern Water Agency
APCD. Air Pollution Control District	

AVTA. Antelope Valley Transit Authority

AWS. American Welding Society

BACMs. Best Available Control Measures

B.C. Before Christ

BCMPs. Best Construction Management Practices

B.P. Before present

BLM. Bureau of Land Management

BMP. Best Management Practices

BPA. Bonneville Power Administration

CAA. Clean Air Act (Federal)

CAAA. Clean Air Act Amendment

CAAQS. California Ambient Air Quality Standards

CAISO. California Independent System Operator

CalARP. California Accidental Release Prevention (Program)

CalEPA. California Environmental Protection Agency

CalOSHA. California Occupational Safety and Health Administration

Caltrans. California Department of Transportation

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

CDHS. California Department of Health and Services

CDMG. California Division of Mines and Geology

CDOC. California Department of Conservation

CDOG. California Division of Oil and Gas

CEC. California Energy Commission

CESA. California Endangered Species Act

CEQA. California Environmental Quality Act

CERCLA. Comprehensive Environmental Response, Compensation and Liability Act (“Superfund”)

Cfm. Cubic feet per minute

CFR. Code of Federal Regulations

cfs. Cubic feet per second

CGS. California Geological Survey

CGTL. Compressed gas Insulated transmission lines

CHP. California Highway Patrol

CHRIS. California Historical Resources Information System

CHSC. California Health and Safety Code

CLWA. Castaic Lake Water Agency

CMA. Congestion Management Agency

CNDDDB. California Natural Diversity Data Base

CNEL. Community Noise Equivalent Level

CNPS. California Native Plant Society

CO. Carbon monoxide

CO₂. Carbon dioxide

CPCN. Certificate of Public Convenience and Necessity

CPUC. California Public Utilities Commission

CRHR. California Register of Historic Resources

CSUB. California State University, Bakersfield

CSUF. California State University, Fullerton

CWA. Clean Water Act

CWC. California Water Code

dB. Decibels

dBA. Decibels 'A' scale

DC. Direct current

DDT. Dichlorodiphenyltrichloroethane

DOGGR. California Division of Oil, Gas, and Geothermal Resources

DOSH. Division of Occupational Safety and Health

DOT. Department of Transportation

DTSC. Department of Toxic Substances Control

DWR. Department of Water Resources

EA. Environmental assessment

EDD. State of California Employment Development Department

EERI. Earthquake Engineering Research Institute

EFZ. Earthquake fault zones

EHV. Electric high-voltage

EIR. Environmental Impact Report

EIS. Environmental Impact Statement

EIR/S. Environmental Impact Report/Statement

EMF. Electric and magnetic fields

SECTION 12.0**GLOSSARY/ACRONYMS***Tehachapi Renewable Transmission Project*

EPA. U.S. Environmental Protection Agency

EPR. Ethylene propylene rubber used for cable insulation

ERM. Emission Reduction Measures

ESA. Environmental Site Assessment

°F. Fahrenheit

FAA. Federal Aviation Administration

FEMA. Federal Emergency Management Agency

FERC. Federal Energy Regulatory Commission

FESA. Federal Endangered Species Act

FHWA. Federal Highway Administration

FIRMs. Flood Insurance Rate Maps

FLM. Federal Land Manager

FLMPA. Federal Land Management and Policy Act

FPPA. Farmland Protection Policy Act

FWS. United States Fish and Wildlife Service

g. Gravitational acceleration

GEP. Good engineering practice

GHG. Greenhouse Gas

GIS. Geographic information system

GO. General Order (CPUC)

gpd. Gallons per day

gpm. Gallons per minute

gps. Gallons per second

GPS. Global position system

HA. Hydrologic Area

HCP. Habitat Conservation Plan

HMMP. Hazardous Materials Management Plan

HOV. High occupancy vehicle

hp. Horsepower

HPFF. High-pressure fluid filled

HR. Hydrologic Region

HSA. Hydrologic Sub-area

HU. Hydrologic Unit

Hz. Hertz

IEEE. Institute of Electrical and Electronic Engineers

IIPP. Injury and Illness Prevention Program

IPCEA. Insulated Power Cable Engineers Association

IPP. Independent Power Producers

IT. Information technology

SECTION 12.0**GLOSSARY/ACRONYMS***Tehachapi Renewable Transmission Project*

IWMC. Interagency Watershed Mapping Committee

kcMil. 1,000 circular mils (unit of area that describes the size of the conductor to be used)

KCAPCD. Kern County Air Pollution Control District

KCPD. Kern County Planning Department

kHz. Kilohertz (unit of frequency)

KOP. Key Observation Point

kV. Kilovolts (unit of electrical potential)

kVA. Kilovolt amperes

KVA. Key viewing area

kV/m. Kilovolts per meter

kW. Kilowatt

LACDPW. Los Angeles County Department of Public Works

LACFD. Los Angeles County Fire Department

LACMTA. Los Angeles County Metropolitan Transportation Authority

LACSD. Los Angeles County Sanitation District

LADWP. Los Angeles Department of Water and Power

Ldn. Day-night level (of noise)

Leq. Equivalent level (of noise)

Lmax. Maximum level (of noise)

LMP. Land Management Plan

LORS. Laws, ordinances, regulations, and standards

LOS. Level of service

LST. Lattice steel tower

LUFT. Leaking Underground Fuel Tank

LW. Lightwave

LWSP. Light-weight steel pole

M_b. Body wave (seismic, magnitude)

M_L. Richter Scale magnitude (seismicity)

Ms. Surface wave (seismic, 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)

MGD. Million gallons/per day

mg/L. Milligram per liter

SECTION 12.0**GLOSSARY/ACRONYMS***Tehachapi Renewable Transmission Project*

M_L. Richter scale

M_{max}. Maximum magnitude earthquake

MMWS. Mojave Mixed Woody Scrub

MOS. Method of Service

MOU. Memorandum of Understanding

MP. Milepost

MPO. Metropolitan Planning Organization

MRZ. Mineral Resource Zone

Ms. Surface wave

MSDS. Material Safety Data Sheet

MVAR. Megavolt-amps reactive

MTA. Metropolitan Transit Authority

Mw. Moment magnitude

MW. Megawatt

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

NHPA. National Historic Preservation Act

NOI. Notice of Intent

NO₂. Nitrogen dioxide

NO_x. Oxide of nitrogen

NPDES. National Pollutant Discharge Elimination System

NRCS. Natural Resources Conservation Service (formerly Soil Conservation Service, [SCS])

NRHP. National Register of Historic Places

O₃. Ozone

OES. Office of Emergency Services

OHGW. Overhead ground wire

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 Trail

PEA. Proponent’s Environmental Assessment

PERP. Portable equipment registration program

PGA. Peak ground acceleration

pH. Potential of hydrogen, or hydrogen ion concentration

PM_{2.5}. fine particulate matter less than 2.5 microns in diameter

PM₁₀. respirable particulate matter less than 10 microns in diameter

ppm. Parts per million

PPP. Polypropylene – paper

PRC. Public Resources Code

PSD. Prevention of Significant Deterioration

PSHA. Probabilistic Seismic Hazards Assessment

psi. Pounds per square inch

psig. Pounds per square inch gage

Qal. Quaternary alluvium

RAS. Remedial Action Scheme

RCRA. Resource Conservation and Recovery Act.

RHNA. Regional Housing Needs Assessment

R-O-W. Right-of-way

RWQCB. Regional Water Quality Control Board

SAC. Stranded Aluminum conductor

SBNF. San Bernardino National Forest

SCAB. South Coast Air Basin

SCAG. Southern California Association of Governments

SCADA. Supervisory Control and Data Acquisition

SCAQMD. South Coast Air Quality Management District

SCCRA. Southern California Regional Rail Authority

SCE. Southern California Edison

SCEC. Southern California Earthquake Center

SCFF. Self-contained fluid-filled

SCREMP. Santa Clara River Enhancement and Management Plan

SCS. Soil Conservation Service

SEA. Significant ecological area

SF6. Sulfur hexafluoride insulating medium

SHMP. Seismic Hazards Mapping Program

SHPO. State Historic Preservation Office

SIP. State Implementation Plan

SJAB. San Joaquin Air Basin	TVI. Television interference
SLIC. Spills, Leaks, Investigations, and Cleanups	TRTP. Tehachapi Renewable Transmission Project
SLR. Single Lens Reflex	TSP. Tubular steel pole
SMARA. California Surface Mining and Reclamation Act of 1975	TWRA. Tehachapi Wind Resource Area
SMGB. State Mining and Geology Board	UBC. Uniform Building Code
SO₂. Sulfur dioxide	UCMP. University of California Museum of Paleontology
SO_x. Oxide of sulfur	UFC. Uniform Fire Code
SPCC. Spill prevention, control, and countermeasures	UMC. Uniform Mechanical Code
SR. State Route	UPC. Uniform Plumbing Code
SVC. Static volt ampere reactive compensator	UPPR. Union Pacific Railroad
SWP. State Water Project	USACE. Corps of Engineers, U.S. Army
SWPPP. Storm Water Pollution Prevention Plan	USC. United States Code
SWRCB. State Water Resources Control Board	USDA. United States Department of Agriculture
TAC. Toxic air containment	USDI. United States Department of the Interior
TBD. To be determined	USDOT. United States Department of Transportation
TDS. Total dissolved solids	USEPA. United States Environmental Protection Agency
T/L. Transmission line	USFS. United States Forest Service
TMA. Transportation Management Area	USFWS. United States Fish and Wildlife Service
TMDL. Total maximum daily load	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

VRM. Visual resource management

WAN. Wide area network

WMP. West Mojave Plan

WSCC. Western Systems Coordinating Council

XLPE. Solid dielectric cross-linked polyethylene

This page left intentionally blank.