

15 ACRONYMS AND ABBREVIATIONS

This chapter provides a list of the acronyms and abbreviations used in this Environmental Impact Report/Environmental Impact Statement. Definitions are provided to the right of each term.

°F	degree(s) Fahrenheit
µg	microgram
µg/m ³	microgram(s) per cubic meter
µm	micron (micrometer)
µT	microtesla
µV	microvolt
2005 Statewide Program EIR/EIS	<i>Statewide Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the Proposed California High-Speed Train (HST) System</i>
2008 Bay Area to Central Valley Program EIR/EIS	<i>Bay Area to Central Valley High-Speed Train Final Program Environmental Impact Report/ Environmental Impact Statement (EIR/EIS)</i>
2016 Business Plan	<i>California High-Speed Rail Program 2016 Business Plan: Connecting and Transforming California</i>
2018 Business Plan	<i>California High-Speed Rail Program 2018 Business Plan: Connecting California, Expanding Economy, Transforming Travel</i>
2020 Business Plan	<i>California High-Speed Rail Program 2020 Business Plan: Recovery and Transformation</i>
2016 RTP/SCS	<i>2016–2040 Regional Transportation Plan/Sustainable Communities Strategy (Southern California Association of Governments)</i>
AADT	annual average daily traffic
AAR	Association of American Railroads
AASHTO	American Association of State Highway and Transportation Officials
AB	(California) Assembly Bill
AC	alternating current
ACGIH	American Conference of Governmental Industrial Hygienists
ACHP	Advisory Council on Historic Preservation
ACM	asbestos-containing material
ACS	(U.S. Census Bureau) American Community Survey
ADA	Americans with Disabilities Act
ADL	aerially deposited lead
ADT	average daily traffic
AGS	Annual Grassland vegetation community
AIA	American Institute of Architects
AICUZ	Air Installations Compatible Use Zone
AJD	approved jurisdictional determination

ALUC	Airport Land Use Commission
ALUCP	Airport Land Use Compatibility Plan
AMMP	Adaptive Management and Monitoring Program
AMP	Airport Master Plan
amsl	above mean sea level
ANF	Angeles National Forest
ANSI	American National Standards Institute
APE	area of potential effect
APN	(Los Angeles County) Assessor's Parcel Number
APS	Alternative Planning Strategy
APTA	American Public Transportation Association
APZ	Accident Potential Zone
AQMD	air quality management district
AQMP	air quality management plan
AREMA	American Railway Engineering and Maintenance-of-Way Association
ASCE	American Society of Civil Engineers
ASQ	allowable sale quantity
ASR	Archaeological Survey Report
AST	aboveground storage tank
ASTM	ASTM International (formerly known as American Society for Testing and Materials)
ATC	automatic train control
ATP	Archaeological Treatment Plan
Authority	California High-Speed Rail Authority
AVAQMD	Antelope Valley Air Quality Management District
AVEK	Antelope Valley-East Kern Water Agency
AVTA	Antelope Valley Transit Authority
AVUHSD	Antelope Valley Unified High School District
AWSC	all-way stop-controlled
BAR	barren land cover type
BART	Bay Area Rapid Transit
BCC	Birds of Conservation Concern
BEA	(U.S.) Bureau of Economic Analysis
BEMP	built environment monitoring plan
BETP	built environment treatment plan
BFD	Burbank Fire Department
BGEPA	Bald and Golden Eagle Protection Act

bgs	below ground surface
BLM	(U.S. Department of the Interior) Bureau of Land Management
BLMS	Bureau of Land Manag/ement designated Sensitive Species
BMP	best management practice
BNSF	BNSF Railway (formerly known as Burlington Northern and Santa Fe Railway)
BP	before present
BPM-V3	Business Plan Model-Version 3
BR	benefited receiver
BRMP	Biological Resources Management Plan
BRT	bus rapid transit
Btu	British thermal unit
BUR	Hollywood Burbank Airport (formerly Burbank Bob Hope Airport)
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAISO	California Independent System Operator
CAL FIRE	California Department of Forestry and Fire Protection
Cal. Code Regs.	California Code of Regulations
Cal. Health and Safety Code	California Health and Safety Code
Cal. Public Res. Code	California Public Resources Code
Cal. Streets and Highway Code	California Streets and Highway Code
Cal. Water Code	California Water Code
CalEEMod	California Emissions Estimator Model
Cal-EPA	California Environmental Protection Agency
CALINE4	California Line Source Dispersion Model, Version 4
Cal/OSHA	California Occupational Safety and Health Administration
CalRecycle	California Department of Resources Recycling and Recovery
CalSTA	California State Transportation Agency
Caltrans	California Department of Transportation
CAP	community plan area
CARB	California Air Resources Board
CASM-SFV	Citizens Against Strip Mining in the San Fernando Valley
CAT	computed axial tomography
CCAA	California Clean Air Act
CCR	California Code of Regulations

CD	compact disk
CDFW	California Department of Fish and Wildlife
CDOF	California Department of Finance
CEC	California Energy Commission
CEQ	(U.S.) Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFGF	California Fish and Game Code
C.F.R.	Code of Federal Regulations
CGS	California Geological Survey
CH ₄	methane
CHL	California Historical Landmark
CHP	California Highway Patrol
CIA	Community Impact Assessment
CLUP	Comprehensive Land Use Plan
CM	commercial
CMA	critical movement analysis
CMF	Central Maintenance Facility
CMP	Construction Management Plan <i>or</i> Congestion Management Plan
cm/sec	centimeters/second
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CNRA	California Natural Resources Agencies
CO	carbon monoxide
CO Protocol	Transportation Project-Level Carbon Monoxide Protocol
CO ₂	carbon dioxide
CO _{2e}	carbon dioxide equivalent
COG	Council of Governments
Cont.	continued
COW	Coastal Oak Woodland vegetation community
CP	control point <i>or</i> construction package

CPUC	California Public Utilities Commission
CRC	Chamise-Redshank Chaparral vegetation community
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Ranks
CSA	construction staging area
CSC	Coastal Scrub vegetation community
CSE	countywide siting element
CSLC	California State Lands Commission
CSMP	Corridor System Management Plan
CT	communication tower
	<i>or</i>
	computed tomography
	<i>or</i>
	CDFW candidate (species) for state threatened status
CTC	California Transportation Commission
CTP	Construction Transportation Plan
CUP	Conditional Use Permit
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CWG	community working group
CWHR	California Wildlife Habitat Relationship System
dB	decibel(s)
dBA	A-weighted decibel(s)
DBE	Disadvantage Business Enterprise
DC	direct current
DEIR	Draft Environmental Impact Report (CEQA)
DEIS	Draft Environmental Impact Statement (NEPA)
DOC	(California) Department of Conservation
DOGGR	(California) Division of Oil, Gas, and Geothermal Resources
DOI	(U.S.) Department of the Interior
DOR	deciduous orchard/vineyard
DPM	diesel particulate matter
DPR	(California) Department of Parks and Recreation
DRIR	Draft Relocation Impact Report
DSC	Desert Scrub vegetation community
DSW	Desert Wash vegetation community
DTSC	(California) Department of Toxic Substances Control

EA	Environmental Assessment (NEPA)
EB	eastbound
EBA	East Branch of the California Aqueduct
EBT	eastbound turn lane
EDD	(California) Employment Development Department
EDMS	Emission and Dispersion Modeling System
EDR	Environmental Data Resources
EFH	Essential Fish Habitat
EGPR	(Governor's) Environmental Goals and Policy Report
EIR	Environmental Impact Report (CEQA)
EIS	Environmental Impact Statement (NEPA)
EJ	environmental justice
EJCW	Environmental Justice Coalition for Water
ELF	extremely low frequency
EMC	electromagnetic compatibility
EMCPP	Electromagnetic Compatibility Program Plan
EMF	electromagnetic field
EMFAC 2014	Emission Factors 2014 model
EMI	electromagnetic interference
EMMA	Environmental Mitigation Management and Assessment system <i>or</i> Environmental Mitigation Management and Application system
EMU	electric multiple unit
EO	(California) Executive Order
EPB	earth pressure balance
ESA	environmentally sensitive area
ESFVTC	East San Fernando Valley Transit Corridor
FAA	Federal Aviation Administration
FAST	Fixing America's Surface Transportation Act
FCC	Federal Communications Commission
FCS	first construction segment
FE	Federally Endangered
Fed. Reg.	Federal Register
FEIR	Final Environmental Impact Report (CEQA)
FEIS	Final Environmental Impact Statement (NEPA)
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission

FESA	Federal Endangered Species Act
FHSZ	fire hazard severity zones
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Maps
FLPMA	Federal Land Policy and Management Act
FLSSC	Fire and Life Safety and Security Committee
FMMP	Farmland Mapping and Monitoring Program
FOE	Finding of Effect Report
FONSI	Finding of No Significant Impact (NEPA)
FP	fully protected (California Department of Fish and Wildlife designated)
FPP	flood protection plan
FPPA	Farmland Protection Policy Act
FRA	Federal Railroad Administration
FSH	(U.S.) Forest Service Handbooks
FSS	(U.S.) Forest Service sensitive species
FSZ	Farmland Security Zone
ft	foot/feet
FT	federally threatened
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
G	gauss
GAVEA	Greater Antelope Valley Economic Alliance
GBN	groundborne noise
GC	general conformity (air quality)
GHAD	Geologic Hazard Abatement Districts
GHG	greenhouse gas
GHz	gigahertz
GIS	geographic information system
gpd	gallon(s) per day
GPS	global positioning system
GWh	gigawatt hour
GWP	global warming potential
HAER	Historic American Engineering Record
HAP	hazardous air pollutant
HASR	Historic Architectural Survey Report
HCD	Housing and Community Development
HCM	(California) Highway Capacity Manual

HCP	Habitat Conservation Plans
HDM	(California) Highway Design Manual
HEPA	high-efficiency particulate air
HF	high frequency
HFC	hydrofluorocarbons
HFE	hydrofluorinated ether
HHH Memorial Recreation Center and Pool	Hubert H. Humphrey Memorial Recreation Center and Pool
HHS	(U.S.) Department of Health and Human Services
HI	hazard index
HMA	Hillside Management Area (Los Angeles County General Plan)
HMF	heavy maintenance facility
HOV	high-occupancy vehicle
HPSR	Historic Property Survey Report
HRA	health risk assessment
H.S.C.	(California) Health and Safety Code
HSR	high-speed rail
HST	high-speed train
Hz	hertz
I-	Interstate Highway
IAMF	impact avoidance and minimization feature
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICON CDC	Initiating Change in Our Neighborhoods Community Development Corporation
ICU	intersection capacity utilization
IEEE	Institute of Electrical and Electronic Engineers
in/sec	inch(es) per second
IOS	initial operating segment
IPaC	Information for Planning and Consultation
ISCC	Invasive Species Council of California
JPA	Joint Powers Authority
JST	Joshua Tree vegetation community
JUN	Juniper vegetation community
KBUR	Hollywood Burbank Airport
kHz	kilohertz
kV	kilovolt
kV/m	kilovolt(s) per meter

KVP	key viewpoint
kW	kilowatt
kWh	kilowatt hour
LAC	lacustrine
LACDPW	Los Angeles County Department of Public Works
LACFCD	Los Angeles County Flood Control District
LACFD	Los Angeles County Fire Department
LACSD	Los Angeles County Sanitation Districts
LADC	Lockheed Advanced Development Company
LADOT	Los Angeles Department of Transportation
LADWP	Los Angeles Department of Water and Power
LAFD	Los Angeles Fire Department (City)
LAPD	Los Angeles Police Department
LASC	Los Angeles Sustainability Coalition
LASD	Los Angeles County Sheriff's Department
LAUS	Los Angeles Union Station
LAUSD	Los Angeles Unified School District
LAX	Los Angeles International Airport
LBP	lead-based paint
LCM	lead-containing materials
L_{day}	day sound level in A-weighted decibels
L_{dn}	day-night sound level in A-weighted decibels
LEDPA	least environmentally damaging practicable alternative
Lenpower	length of power car
Lenref	referenced source length
Lentrain	length of train
LEP	limited English proficiency
L_{eq}	equivalent sound level in A-weighted decibels
LID	low-impact development
L_{max}	maximum sound level in A-weighted decibels
LMF	light maintenance facility
LMP	land management plan
L_{night}	night sound level in A-weighted decibels
LOS	level of service
LACAN	Los Angeles Community Action Network
LRT	light rail transit
LRTP	long-range transportation plan

LST	Localized Significance Thresholds
LU	land use
L _v	vibration velocity level in decibels
LWCF	(U.S.) Land and Water Conservation Fund
Sev	Severe
Magnuson-Stevens Act	Magnuson-Stevens Fisheries Conservation and Management Act
MBE	Minority Business Enterprise
MBTA	Migratory Bird Treaty Act
MCH	Mixed Chaparral vegetation community
MCP	montane chaparral
mcy	million cubic yards
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MEND	Meet Each Need with Dignity
Metro	Los Angeles County Metropolitan Transportation Authority
MFR	multifamily residential
mG	milligauss
mgd	million gallon(s) per day
mg/m ³	milligram(s) per cubic meter
MHC	Montane Hardwood-Conifer vegetation community
MHWM	mean high-water mark
MHz	megahertz
MLD	most-likely descendant
MM	Mitigation Measure
MMBtu	million metric British thermal units
MMEP	Mitigation Monitoring and Enforcement Plan
MMT	million metric tons
MMT/yr	million metric tons per year
MOA	memorandum of agreement
Mod	Moderate
MOIF	maintenance of infrastructure facility
MOIS	maintenance of infrastructure siding
MOU	memorandum of understanding
MOWF	maintenance-of-way facility
MP	mile post
MPE	maximum permissible exposure

mpg	miles per gallon
mph	miles per hour
MPO	metropolitan planning organization
MRI	magnetic resonance imaging
MRZ	mineral resource zone
MS4	municipal separate storm sewer system
MSAT	mobile-source air toxics
msl	mean sea level
MT	metric tons
MW	megawatt
MWD	Metropolitan Water District of Southern California
N ₂ O	nitrous oxide
NAAC	Native American Advisory Committee
NAAQS	National Ambient Air Quality Standards
NAC	noise abatement criteria
NAHC	(California) Native American Heritage Commission
NAICS	North American Industry Classification System
NB	northbound
Ncars	number of passenger cars in the train
NCCP	Natural Community Conservation Plan
NDB	non-directional beacon
NEPA	National Environmental Policy Act
NF ₃	nitrogen trifluoride
NFMA	National Forest Management Act
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NMFS	National Marine Fisheries Service
NO	nitric oxide
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent (NEPA)
NOP	Notice of Preparation (CEQA)
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List

Npower	number of power units in the trains
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSA	noise-sensitive area
NWR	National Wildlife Refuge
NZE	net-zero emission
O&M	operation and maintenance
O ₃	ozone
OC	overcrossing
OCC	Operations Control Center
OCS	overhead catenary system
OEHHA	(California) Office of Environmental Health Hazard Assessment
OET	(U.S.) Office of Engineering and Technology
OHP	(California) Office of Historic Preservation
OHWM	ordinary high water mark
OPR	(California) Office of Planning and Research
OSHA	(U.S.) Occupational Safety and Health Administration
OVN	Deciduous Orchard/Vineyard land cover type
OWJ	officials with jurisdiction
PA	programmatic agreement
PAA	Preliminary Alternatives Analysis
PAH	polycyclic aromatic hydrocarbon
Palmdale TC	Palmdale Transportation Center
Pb	lead
P-C	production-consumption
PCB	polychlorinated biphenyl
PCT	Pacific Crest Trail
PCTA	Pacific Crest Trail Association
PEC	potential environmental concern
People's CORE	People's Community Organization for Reform and Empowerment
PEPD	preliminary engineering for project definition
PFC	perfluorocarbon
PG&E	Pacific Gas and Electric Company
PGA	peak ground acceleration
PHA	preliminary hazard analysis
PI	principal investigator

PJD	preliminary jurisdictional determination
PM	particulate matter
PM ₁₀	particulate matter equal to or less than 10 microns in diameter
PM _{2.5}	particulate matter equal to or less than 2.5 microns in diameter
PMT	Program Management Team
ppb	part(s) per billion
ppm	part(s) per million
PPRA	Paleontological Resources Preservation Act
PPV	peak particle velocity
PRM	paleontological resource monitor
PRMMP	Paleontological Resource Monitoring and Mitigation Plan
PRS	paleontological resources specialist
PS	paralleling station
PSR-LA	Physicians for Social Responsibility -- Los Angeles
PTC	positive train control
PTE	permission to enter
PWD	Palmdale Water District
QI	Qualified Investigator
RC	Regional Consultant
RCAC	Rural Community Assistance Corporation
RCRA	Resource Conservation and Recovery Act
RETI	Renewable Energy Transmission Initiative 2.0
RF	radio frequency
RFI	radio frequency interference
RHNA	Regional Housing Needs Assessment
RIMS	Regional Input-Output Modeling System
RIV	riverine
RMS	root mean square
ROD	Record of Decision (NEPA)
ROG	reactive organic gas
ROW	right-of-way
RPW	relatively permanent water
RRP	Restoration and Revegetation Plan
RSA	resource study area
RTAC	Regional Targets Advisory Committee
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan

RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RUB	Urban land cover type
RWQCB	Regional Water Quality Control Board
S	speed
SAA	Supplemental Alternatives Analysis
SAFE	Save Angeles Forest for Everyone <i>or</i> Safer Affordable Fuel-Efficient
SB	(California) Senate Bill <i>or</i> southbound
SC	state-candidate for listing
SCAB	South Coast Air Basin
SCADA	Supervisory Control and Data Acquisition
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCN	Santa Clarita North
SCOPE	Strategic Concepts in Organizing and Policy Education
SCRRA	Southern California Regional Rail Authority
SCS	Santa Clarita South
SE	State endangered
SEA	Significant Ecological Area
SEL	Sound Exposure Level
SEM	sequential excavation method
SEPP	Security and Emergency Preparedness Plan
SEMS	Standardized Emergency Management System
SF	sensitive facility
SF ₆	sulfur hexafluoride
SFHA	Special Flood Hazard Area
SFO	San Francisco International Airport
SFR	single-family residential
SGB	Sagebrush vegetation community
SGMNM	San Gabriel Mountains National Monument
SHPO	State Historic Preservation Office
SIA	Special Interest Areas

SIP	State Implementation Plan
SMARA	Surface Mining and Reclamation Act
SMT	Strategic Management Plan
SO ₂	sulfur dioxide
SOI	(U.S.) Secretary of the Interior
SOIS	(U.S.) Secretary of the Interior's Standards
SO _x	sulfur oxides
SPCC	spill prevention, containment, and control
SPR	Site Plan Review
SPWN	spawning, reproduction, and development
SR	(California) State Route
Sref	reference speed
SSC	Species of Special Concern
SSMP	Safety and Security Management Plan
SSP	System Security Plan
SSPP	System Safety Program Plan
ST	state threatened (California Department of Fish and Wildlife designated)
STB	(U.S.) Surface Transportation Board
STIP	State Transportation Improvement Program
SUA	Special Use Authorization
s/v	seconds per vehicle
SVP	Society of Vertebrate Paleontology
SWG	stakeholder working group
SWP	(California) State Water Project
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
T	tesla
TAC	toxic air containment
TBM	tunnel boring machine
TCE	temporary construction easement
TCP	traditional cultural property
TCR	Transportation Concept Report
TDM	Transportation Demand Management
TGV	<i>Train à Grande Vitesse</i> (French high-speed train)
TMDL	total maximum daily load
TNM2.5	Traffic Noise Model 2.5
TOD	transit-oriented development

TOD3	City of Palmdale Transit Oriented Development Project
TOG	total organic gases
TPZ	timberland protection zone
TPSS	traction power substation
TRB	(U.S.) Transportation Research Board
TSA	(U.S.) Transportation Security Administration
TVA	threat vulnerability assessment
TWSC	two-way stop-controlled
UCLA	University of California, Los Angeles
ulen _{car}	length of one passenger car
ulen _{power}	length of one power unit
Unified Program	Unified Hazardous Waste and Hazardous Materials Management Regulatory Program
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act
Union Pacific/UPRR	Union Pacific Railroad
URB	urban
U.S.	United States
USDOT	U.S. Department of Transportation
USDOJ	U.S. Department of Justice
USACE	U.S. Army Corps of Engineers
USAF	U.S. Air Force
USBR	U.S. Bureau of Reclamation
U.S. Census	U.S. Census Bureau
U.S.C.	United States Code
USDA	U.S. Department of Agriculture
USEO	U.S. (Presidential) Executive Order
USEPA	U.S. Environmental Protection Agency
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UWMP	Urban Water Management Plan
V/C	volume-to-capacity ratio
V/M	volt(s) per meter
VdB	vibration velocity level
VHF	very high frequency
VIR	Valley Foothill Riparian vegetation community

VMT	vehicle miles traveled
VOC	volatile organic compound
VSA	vibration-sensitive area
VRI	valley foothill riparian
WB	westbound
WCP	Weed Control Plan
WDR	(statewide general) waste discharge requirements
WEAP	(statewide) Worker Environmental Awareness Program
WEF	wildlife exclusion fence
WiFi	wireless fidelity
WiMAX	worldwide interoperability for microwave access
WOTUS	Waters of the United States
WUI	wildland urban interface
ZE	zero emission

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