

## 15 ACRONYMS AND ABBREVIATIONS

Since publication of the Draft Environmental Impact Report/Environmental Impact Statement (EIR/EIS), two substantive changes have been made to this chapter:

- Draft Relocation Impact Report (DRIR), Revised Draft Environmental Impact Report (RDEIR), and Supplemental Draft Environmental Impact Statement (SDEIS) have been added.
- Relocation Impact Report (RIR) has been removed.

This chapter provides a master list of the acronyms and abbreviations used throughout this Final EIR/EIS. Definitions are provided to the right of each term.

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
2005 Statewide Program EIR/EIS	<i>Statewide Program Environmental Impact Report/ Environmental Impact Statement for the Proposed California High-Speed Train 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</i>
°F	degrees Fahrenheit
AADT	annual average daily traffic
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 materials
ACS	American Community Survey (U.S. Census Bureau)
ADA	Americans with Disabilities Act
ADA	average daily attendance
ADT	average daily traffic
af	acre-feet
afy	acre-feet per year
AICUZ	Air Installation Compatible Use Zone
amsl	above mean sea level
ANSI	American National Standards Institute
AP Act	Alquist-Priolo Earthquake Fault Zoning Act
APE	area of potential effect
APN	Assessor's Parcel Number
APS	alternative planning strategy
APZ	Accident Potential Zone
AQMD	Air Quality Management District
ASA	Archaeological Study Area

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
ASM	Alternatives Screening Memorandum
ASR	Archaeological Survey Report
ASTM	ASTM International (formerly known as the 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
AVTA	Antelope Valley Transit Authority
Bakersfield to Palmdale Project Section	Bakersfield to Palmdale Project Section of the California High-Speed Rail System
BART	Bay Area Rapid Transit
BCHSHD	Big Creek Hydroelectric System Historic District
BEMP	Built Environment Monitoring Plan
BETP	Built Environment Treatment Plan
BFE	base flood elevation
BFL	Meadows Field Airport
BGEPA	Bald and Golden Eagle Protection Act
bgs	below ground surface
BLM	Bureau of Land Management
BMP	best management practice
BNSF	BNSF Railway (formerly Burlington Northern Santa Fe Railway)
BOR	Bureau of Reclamation
B-P	Bakersfield to Palmdale Project Section
BPM-V3	Business Plan Model, Version 3
BRMP	Biological Resources Management Plan
BSA	Biological Study Area
Btu	British thermal unit(s)
BUR	Hollywood Burbank Airport
C&D	construction and demolition
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CADD	computer-aided design and drafting
CAISO	California Independent System Operator
Cal. Code Regs.	California Code of Regulations

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
CalEEMod	California Emissions Estimator Model
Cal-EPA	California Environmental Protection Agency
CAL FIRE	California Department of Forestry and Fire Protection
Cal-IPC	California Invasive Plant Council
CALINE4	California LINE Source Dispersion Model, Version 4 (air quality model)
Cal. Public Res. Code	California Public Resources Code
Cal-OSHA	California Occupational Safety and Health Administration
Cal. Water Code	California Water Code
CalRecycle	California Department of Resources, Recycling, and Recovery
Caltrans	California Department of Transportation
CAOTS	California Office of Traffic Safety
CARB	California Air Resources Board
CBSC	California Building Standards Code
CCH	Consortium of California Herbaria
CCNM	César E. Chávez National Monument
CDFA	California Department of Food and Agriculture
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife
CDMG	California Department of Conservation, Division of Mines and Geology
CDP	census designated place
CDSM	cement deep-soil-mixing
CEC	California Energy Commission
CEDD	California Employment Development Department
CEQ	Council on Environmental Quality (federal)
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFGC	California Fish and Game Code
C.F.R	Code of Federal Regulations
cfs	cubic feet per second
CGS	California Geological Survey
CH <sub>4</sub>	methane
CHA	collision hazard analysis

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
CIA	Community Impact Assessment
CLOMR	Conditional Letter of Map Revision
CMA	Conservation Management Action
CMP	Congestion Management Plan or Construction Management Plan
CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalent
COG	Council of Governments
Cortese	State of California Department of Toxic Substances Control Hazardous Waste and Substances Sites List
CP	construction package
CPTED	Crime Prevention through Environmental Design
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
CSLC	California State Lands Commission
CSMP	Corridor System Management Plan
CT	computed tomography
CTP	Construction Transportation Plan
CUPA	Certified Unified Program Agency
CVFPB	Central Valley Flood Protection Board
CVRWQCB	Central Valley Regional Water Quality Control Board
CWA	Clean Water Act
CWHR	California Wildlife Habitat Relationship
CZ	Clear Zone
DART	Dallas Area Rapid Transit
DB	design-build
dB	decibel(s)
dBA	A-weighted decibel(s)
dBA L <sub>eq</sub>	equivalent continuous noise level measured in A-weighted decibels
DC	direct current

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
DCM	California High-Speed Rail Authority Design Criteria Manual
DEIR	draft environmental impact report (CEQA)
DEIS	draft environmental impact statement (NEPA)
DOC	California Department of Conservation
DOF	California Department of Finance
DOGGR	California Department of Oil, Gas, and Geothermal Resources
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DRECP	Desert Renewable Energy Conservation Plan
DRIR	Draft Relocation Impact Report
DSMP	District System Management Plan
DSOD	California Division of Safety of Dams
DWR	California Department of Water Resources
EA	Environmental Assessment (NEPA)
EB	eastbound
EDR	Environmental Data Resources, Inc.
EIR	environmental impact report (CEQA)
EIS	environmental impact statement (NEPA)
EJ	environmental justice
EKAPCD	Eastern Kern Air Pollution Control District
ELF	extremely low frequency
EMC	electromagnetic compatibility
EMCPP	Electromagnetic Compatibility Program Plan
EMF	electromagnetic field
EMFAC2014	Emission Factors 2014
EMI	electromagnetic interference
EMMA	Environmental Mitigation Management and Assessment
EO	(California) Executive Order
ERA	environmentally restricted area
ESA	environmental site assessment or Federal Endangered Species Act
EMU	electric multiple unit
FAA	Federal Aviation Administration
FAST Act	Fixing America's Surface Transportation Act

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
FAT	Fresno-Yosemite International Airport
F-B LGA	Fresno to Bakersfield Locally Generated Alternative
FCC	Federal Communications Commission
Fed. Reg.	<i>Federal Register</i>
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FLSP	Fire and Life Safety Program
FMMP	Farmland Mapping and Monitoring Program
FOE	Finding of Effect
FPPA	Farmland Protection Policy Act
FRA	Federal Railroad Administration
FSZ	Farmland Security Zone
ft	foot/feet
FTA	Federal Transit Administration
FY	fiscal year
g	acceleration of gravity
G	gauss
GAMAQI	Guide for Assessing and Mitigating Air Quality Impacts
GC	general conformity
GET	Golden Empire Transit District
GHG	greenhouse gas
GHz	gigahertz
GIS	geographic information system
GPS	global positioning system
GSSPR	geology, soils, seismicity, and paleontological resources
GWh	gigawatt-hour(s)
GWP	global warming potential
HA	Hydrological Area
HABS	Historic American Building Survey
HAER	Historic American Engineering Record
HALS	Historic American Landscape Survey
HASR	Historic Architectural Survey Report
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
HF	high frequency
HMF	heavy maintenance facility
HPSR	Historic Property Survey Report
HSR	high-speed rail
HU	Hydrologic Unit
HUC	Hydrologic Unit Code
Hz	Hertz
I	Interstate
IAMF	impact avoidance and minimization feature (California High-Speed Rail Authority)
IBC	International Building Code
ICC	Interstate Commerce Commission
IEEE	Institute of Electrical and Electronic Engineers
in/sec	inch(es) per second
InSAR	Interferometric Synthetic Aperture Radar
IOS	Initial Operating Segment
ISEP	Implementation Stage Electromagnetic Compatibility Program Plan
KCSOS	Kern County Superintendent of Schools
Kern COG	Kern Council of Governments
kHz	kilohertz
kV	kilovolt(s)
kV/m	kilovolt(s) per meter
KVP	key viewpoint
kWh	kilowatt-hour(s)
La Paz	Nuestra Señora Reina de La Paz/César E. Chávez National Monument
LACDPW	Los Angeles County Department of Public Works
LACM	Natural History Museum of Los Angeles County
LACSD	Los Angeles County Sanitation Districts
Lahontan Basin Plan	Water Quality Control Plan for the Lahontan Region
LAX	Los Angeles International Airport
LBP	lead-based paint
LCFF	Local Control Funding Formula
LDA	light-duty automobiles
L <sub>dn</sub>	day-night sound level, dBA

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
LDT	light-duty trucks
LEDPA	Least Environmentally Damaging Practicable Alternative
LEP	limited English proficiency
$L_{eq}$	equivalent sound level, dBA
LGA	Locally Generated Alternative (see F-B LGA)
$L_{max}$	maximum instantaneous noise level
LMF	light maintenance facility
LOMR	Letter of Map Revision
LOS	level(s)-of-service
LWCF	Land and Water Conservation Fund
$L_v$	root-mean-square velocity level
M	magnitude (earthquake)
Ma	million years ago
MAP	million annual passengers
MAX	Metropolitan Area Express
MaxEnt	maximum entropy modeling
May 2014 Project	Fresno to Bakersfield Section Approved Project
MBHCP	Metropolitan Bakersfield Habitat Conservation Plan
MBTA	Migratory Bird Treaty Act
MDAB	Mojave Desert Air Basin
MDBM	Mount Diablo Base and Meridian
Metro	Los Angeles County Metropolitan Transportation Authority
mG	milligauss
mHz	megahertz
mi	mile(s)
MLD	most likely descendant
mm/yr	millimeter per year
MM	mitigation measure
MMBtu	million British thermal units
MMEP	Mitigation Monitoring and Enforcement Plan
MMT	million metric tons
MOA	memorandum of agreement
MOWF	maintenance-of-way facility
MOIS	maintenance of infrastructure siding
MPE	maximum permissible exposure



<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
mph	mile(s) per hour
MPO	metropolitan planning organization
MR	map reference
MRI	magnetic resonance imaging
MRZ	mineral resource zone
MS4	municipal separate storm sewer system
MSAT	mobile-source air toxics
MW	megawatt(s)
N <sub>2</sub> O	nitrous oxide
N/A	not applicable
NA	not available
NAAQS	National Ambient Air Quality Standards
NAC	Noise Abatement Criteria
NADR	Noise Abatement Decision Report
NAHC	Native American Heritage Commission
NAICS	North American Industry Classification System
NB	northbound
NCCP	Natural Communities Conservation Plan
n.d.	no date
NDB	non-directional beacon
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NHL	National Historic Landmark
NHPA	National Historic Preservation Act of 1966
NIMS	National Incident Management System
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	nitrogen dioxide
NOA	naturally occurring asbestos
NO <sub>x</sub>	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSR	Noise Study Report
O <sub>3</sub>	ozone

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
OCC	Operation Control Center
OCS	overhead contact system
OEHHA	(California) Office of Environmental Health Hazard Assessment
OHP	(California) Office of Historic Preservation
OHWM	ordinary high water mark
OSHA	Occupational Safety and Health Administration
P-B	Palmdale to Burbank Project Section
PA	programmatic agreement
PAA	Preliminary Alternatives Analysis
PATCO	Port Authority Transit Corporation
Pb	lead
PCB	polychlorinated biphenyls
PCM	Project Construction Manager
PCT	Pacific Crest Trail
PEC	potential environmental concern
PEPD	Preliminary Engineering for Project Definition
PG&E	Pacific Gas and Electric
PHA	preliminary hazard analysis
PIM	Public Information Meeting
PM <sub>2.5</sub>	particulate matter smaller than or equal to 2.5 microns in diameter
PM <sub>10</sub>	particulate matter smaller than or equal to 10 microns in diameter
PMD	Palmdale Regional Airport
Policy Council	San Joaquin Valley Regional Planning Agencies' Policy Council
Porter-Cologne Act	Porter Cologne Water Quality Control Act
ppm	parts per million
PPV	peak particle velocity
PRIIA	Passenger Rail Investment and Improvement Act of 2008
PRM	paleontological resources monitor
PRMMP	Paleontological Resource Monitoring and Mitigation Plan
PRS	paleontological resources specialist
PTC	positive train control
PTE	permission to enter
QI	Qualified Investigator
RCRA	Resource Conservation and Recovery Act
RDEIR	Revised Draft Environmental Impact Report

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
Renfe	<i>Renfe Operadora</i> (Spanish national railway system)
RF	radio frequency
RFI	radio-frequency interference
RFQ	request for qualifications
RIMS	Regional Input-Output Modeling System of the Bureau of Economic Analysis
RIR	Relocation Impact Report
RMS	root-mean-square
ROD	Record of Decision (NEPA)
ROG	reactive organic gases
ROW	right-of-way
RPR	Rare Plant Rank
RRP	Restoration and Revegetation Plan
RSA	resource study area
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SAA	Supplemental Alternatives Analysis
SB	(California) Senate Bill or southbound
SBBM	San Bernardino Baseline and Meridian
SCAG	Southern California Association of Governments
SCS	sustainable communities strategy
SCE	Southern California Edison
SDEIS	Supplemental Draft Environmental Impact Statement
SEL	Sound Exposure Level
SEMS	Standardized Emergency Management System
SEPTA	Southeastern Pennsylvania Transportation Authority
SF <sub>6</sub>	sulfur hexafluoride
SFHA	Special Flood-Hazard Areas
SGP	Strategic Growth Plan
SHPO	State Historic Preservation Office(r)
SIL	Significant Impact Level
SIP	state implementation plan
SJVAB	San Joaquin Valley Air Basin

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
SJVAPCD	San Joaquin Valley Air Pollution Control District
SJVR	San Joaquin Valley Railroad
SMP	System Management Plan
SO <sub>2</sub>	sulfur dioxide
SOI	Secretary of the Interior or sphere of influence
SOIS	Secretary of the Interior's Standards
SOQ	statement of qualifications
SO <sub>x</sub>	sulfur oxides
SPCC	Spill Prevention, Control, and Countermeasure
SQMP	Stormwater Quality Management Plan
SR	State Route
SSC	Species of Special Concern
SSJVIC	San Joaquin Valley Information Center
SSPSA	Special-Status Plant Study Area
State Rail Plan	California State Rail Plan
STB	Surface Transportation Board
SVP	Society of Vertebrate Paleontology
SWG	Stakeholder Working Group
SWMP	stormwater management plan/program
SWMTP	stormwater management and treatment plan
SWPPP	stormwater pollution prevention plan
SWRCB	State Water Resources Control Board
T	Tesla
TAC	toxic air contaminants
TBM	tunnel boring machine
TCP	traditional cultural property
TCR	Transportation Concept Report
TCE	temporary construction easement
TGV	<i>Train à Grande Vitesse</i> (French national HSR system)
TM	Technical Memorandum
TMDL	total maximum daily load
TOD	transit-oriented development
TOG	total organic gas

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
TPSS	traction power substation
tpy	tons per year
TRIP	Thomas Roads Improvement Program
TSA	Transportation Security Administration (United States)
TSI	Technical Specification for Interoperability
Tulare Lake Basin Plan	Water Quality Control Plan for the Tulare Lake Basin
TVA	threat and vulnerability assessment
TWG	Technical Working Group(s)
TWRA	Tehachapi Wind Resource Area
UFW	United Farm Workers
Unified Program	Unified Hazardous Waste and Hazardous Materials Management Regulatory Program
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act
UPRR	Union Pacific Railroad
U.S.	United States
U.S.C.	United States Code
USACE	United States Army Corps of Engineers
USAF	United States Air Force
USDA	United States Department of Agriculture
USDOI	United States Department of the Interior
USDOT	United States Department of Transportation
USEO	United States Executive Order
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
v/m	volts per meter
VdB	vibration velocity decibel(s)
VERA	Voluntary Emission Reduction Agreement
VFHCP	Valley Floor Habitat Conservation Plan
VHF	very high frequency
VHT	vehicle hours traveled
VIA	visual impact assessment
VMT	vehicle miles traveled
VOC	volatile organic compound

<b>ABBREVIATION/ ACRONYM</b>	<b>DEFINITION</b>
VOR	VHF Omni-Directional Radio Range
WB	westbound
WCP	Weed Control Plan
WEAP	Worker Environmental Awareness Program
WEF	wildlife exclusion fence zone
WGCEP	Working Group on California Earthquake Probabilities (USGS)
WiFi	wireless fidelity
WiMAX	Worldwide Interoperability for Microwave Access
$\mu\text{g}/\text{m}^3$	microgram(s) per cubic meter
$\mu\text{T}$	microtesla