

California High-Speed Rail Authority

San Jose to Merced *Project Section*

Draft Project Environmental Impact
Report/Environmental Impact
Statement

Chapter 15
Acronyms and Abbreviations

April 2020



The environmental review, consultation, and other actions required by applicable federal environmental laws for this project are being or have been carried out by the State of California pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated July 23, 2019, and executed by the Federal Railroad Administration and the State of California.

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15 ACRONYMS AND ABBREVIATIONS

This list of acronyms and abbreviations identifies and defines common terms used in the San Jose to Merced Project Section Environmental Impact Report/Environmental Impact Statement (EIR/EIS). In a few instances, the same acronym or abbreviation will pertain to multiple terms. For example, in Section 3.2, Transportation, CMP refers to a construction management plan, while in Section 3.3, Air Quality and Greenhouse Gases, it refers to a compensation management program and in Section 3.8, Hydrology and Water Resources, it refers to a Compensatory Mitigation Plan. Within each chapter and section of the EIR/EIS every acronym or abbreviation is defined at its first use and that meaning is used consistently thereafter.

°F	degrees Fahrenheit
µg/m ³	micrograms per cubic meter
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>
2016 Business Plan	<i>Connecting and Transforming California: 2016 Business Plan</i>
2018 Business Plan	<i>California High-Speed Rail 2018 Business Plan</i>
AAQA	ambient air quality analysis
AB	(California) Assembly Bill
AB 32 Scoping Plan	Climate Change Scoping Plan
ABAG	Association of Bay Area Governments
AC	alternating current
ACE	Altamont Corridor Express
ACGIH	American Conference of Governmental Industrial Hygienists
ACHP	Advisory Council on Historic Preservation
ACM	asbestos-containing material
ACS	U.S. Census Bureau American Communities Survey
ADL	aerially deposited lead
AGR	agricultural water supply
AIA	airport influence area
Airport Master Plan	<i>Airport Master Plan for Norman Y. Mineta San Jose International Airport</i>
AMBAG	Association of Monterey Bay Area Governments
ANSI	American National Standards Institute
APE	area of potential effect
APLIC	Avian Power Line Interaction Committee
APN	assessor's parcel number
APS	alternative planning strategy
AREMA	American Railway Engineering and Maintenance-of-Way Association

ACS	American Community Survey
ASR	Archaeological Survey Report
ASTM	American Society for Testing and Materials
ATC	automatic train control
ATOR	above top of rail
ATP	archaeological treatment plan
Authority	California High-Speed Rail Authority
BA	biological assessment
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
Bay Area	San Francisco Bay Area
Bcf	billion cubic feet
BEMP	built environment monitoring plan
BETP	built environment treatment plan
BFE	base flood elevation
BGEPA	Bald and Golden Eagle Protection Act
BMP	best management practice
BNSF	BNSF Railway (formerly Burlington Northern and Santa Fe Railroad)
BRMP	biological resources management plan
BRT	bus rapid transit
Btu	British thermal units
C&D	construction and demolition
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAFÉ	Corporate Average Fuel Economy
CAL FIRE	California Department of Forestry and Fire Protection
Cal OES	Governor's Office of Emergency Services
Cal. Code Regs.	California Code of Regulations
Cal. Health & Safety Code	California Health and Safety Code
Cal. Public Res. Code	California Public Resources Code
CalEEMod	California Emissions Estimator Model
Cal-EPA	California Environmental Protection Agency
Cal-ISO	California Independent System Operator
Cal-OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CAPD	California Protected Areas Database

CARB	California Air Resources Board
CBC	California Building Standards Code
CBOE	California (State) Board of Equalization
CCE	Community Choice Energy
CCED	California Conservation Easement Database
CCID	Central California Irrigation District
CCJPA	Capital Corridor Joint Powers Board
CDE	California Department of Education
CDFW	California Department of Fish and Wildlife
CDMG	California Division of Mines and Geology
CDOF	California Department of Finance
CEC	California Energy Commission
CED	California Energy Demand
CEDD	California Employment Development Department
CEMOF	Centralized Equipment Maintenance and Operation Facility
Central Valley RWQCB	Central Valley Regional Water Quality Control Board
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CESA	California Endangered Species Act
C.F.R.	Code of Federal Regulations
CGP	construction general permit
CGS	California Geological Survey
CH ₄	methane
CHP	California Highway Patrol
CIP	cast-in-place
CLUP	comprehensive land use plan
cm	centimeter
CMP	construction management plan
CMP	congestion management program
CMP	compensatory mitigation plan
CNDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CNPS Online Inventory	CNPS Online Inventory of Rare and Endangered Plants of California

CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
CP	control point
CPAD	California Protected Areas Database
CPCN	certificate of public convenience and necessity
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRPR	California Rare Plant Rank
CSE	countywide siting element
CSLC	California State Lands Commission
CSRP	California State Rail Plan
CSTMP	Construction safety transportation management plan
CTC	California Transportation Commission
CTP	construction transportation plan
CTP 2040	<i>California Transportation Plan 2040</i>
CUPA	Certified Unified Program Agency
CVFPB	Central Valley Flood Protection Board
CVJV	Central Valley Joint Venture
CVP	Central Valley Project
CWA	Clean Water Act
CWG	community working group
dB	decibel
dBA	A-weighted decibel
DC	direct current
DDV	Diridon Design Variant
DISC	Diridon Station Intermodal Concept
DHS	Department of Homeland Security
DOC	California Department of Conservation
DOGGR	California Division of Oil, Gas, and Geothermal Resources
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
Draft EIR/EIS	<i>Draft San Jose to Merced Project Section Environmental Impact Report/Environmental Impact Statement</i>
DSAP	Diridon Station Area Plan
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources

ECOS	Environmental Conservation Online System
EEDS	earthquake early detection system
EFH	essential fish habitat
EGPR	Environmental Goals and Policy Report
EINU	electrical interconnection and network upgrade
EIR	environmental impact report
EIS	environmental impact statement
ELF	extremely low frequency
EM	electromagnetic
EMC	electromagnetic compatibility
EMCPP	electromagnetic compatibility program plan
EMF	electromagnetic field
EMI	electromagnetic interference
EMMA	Environmental Mitigation Management and Assessment system
EMR	electromagnetic radiation
EMU	electric multiple-unit (train)
EO	California Executive Order
ESA	environmentally sensitive area
ESA	environmental site assessment
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FAST Act	Fixing America’s Surface Transportation Act
FBI	Federal Bureau of Investigation
FCC	Federal Communications Commission
Fed. Reg.	<i>Federal Register</i>
FEMA	Flood Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FESA	federal Endangered Species Act
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
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
Footprint Report	<i>Technical Memorandum EIR/EIS Assessment of California High-Speed Train Alignment Electromagnetic Field Footprint</i>
Foundation	Bay Area Clean Air Foundation

FPPA	Farmland Protection Policy Act
FRA	Federal Railroad Administration
FSZ	Farmland Security Zone
FTA	Federal Transit Administration
FTA guidance manual	<i>Transit Noise and Vibration Impact Assessment Manual</i>
FY	fiscal year
G	Gauss
GAMMP	groundwater adaptive management and monitoring plan
GEA	Grasslands Ecological Area
GHAD	Geologic Hazard Abatement District
GHG	greenhouse gas
GHz	gigahertz
GIS	geographic information system
GMP	groundwater management plan
GO	General Order
Gov. Code	(California) Government Code
gpd	gallons per day
GWD	Grassland Water District
GWh	gigawatt hours
HABS	historic American buildings survey
HAER	historic American engineering record
HALS	historic American landscape survey
HAP	hazardous air pollutant
HASR	San Jose to Merced Project Section Historic Architectural Survey Report
HCP	habitat conservation plan
HF	high frequency
HMBP	hazardous materials business plan
HMF	heavy maintenance facility
HMMP	hazardous materials monitoring plan
HMRD	Henry Miller Reclamation District
HMWP	hazardous materials and waste plan
HOV	high-occupancy vehicle
HRA	health risk assessment
HSR	high-speed rail
HST	high-speed train
HUA	Hollister Urban Area

HUC	hydrologic unit code
Hydrology and Water Quality Technical Report	<i>San Jose to Merced Project Section Hydrology and Water Quality Technical Report</i>
Hz	hertz
I-	Interstate
IAMF	impact avoidance and minimization feature
IBA	(National Audubon Society) Important Bird Area
ICNIRP	International Commission on Non-Ionizing Radiation Protection
ICS	Incident Command System
IEEE	Institute of Electrical and Electronic Engineers
IGP	industrial general permit
IND	industrial water supply
IOOF	Independent Order of Odd Fellows
ISEP	Implementation Stage EMC Program Plan
K	kindergarten
kHz	kilohertz
kV	kilovolt
kVA	kilovolt-ampere
kV/m	kilovolts per meter
KVP	key viewpoint
LBP	lead-based paint
lbs	pounds
LDBE	lower-level design basis earthquake
L_{dn}	day-night sound level, dBA
LEDPA	least environmentally damaging practicable alternative
LEP	limited English proficiency
L_{eq}	equivalent sound level, dBA
LESA	land evaluation and site assessment
LID	low-impact development
L_{max}	maximum sound level
LMF	light maintenance facility
L_{min}	minimum sound level
LOS	level of service
LRT	light rail transit
L_v	velocity level
LWCF	Land and Water Conservation Fund
Magnuson-Stevens Act	Magnuson-Stevens Fisheries Conservation and Management Act

MBARD	Monterey Bay Air Resources District
MBTA	Migratory Bird Treaty Act
MCAG	Merced County Association of Governments
MCE	maximum considered earthquake
Merced County RTP	Draft Regional Transportation Plan and Sustainable Communities Strategy for Merced County
Metro	Los Angeles County Metropolitan Transportation Authority
mG	milligauss
mg/m ³	milligrams per cubic meter
mgd	million gallons per day
MHz	megahertz
MLD	most likely descendant
MM	mitigation measure
MMBtu	Million British thermal units
MMcf	million cubic feet
MOA	memorandum of agreement
MOU	memorandum of understanding
MOWF	maintenance of way facility
MOWS	maintenance of way siding
MP	milepost
MPE	maximum permissible exposure
mpg	miles per gallon
mph	miles per hour
MPO	metropolitan planning organization
MRI	magnetic resonance imaging
MRP	municipal regional permit
MS4	municipal separate storm sewer system
MSA	metropolitan statistical area
MSAT	mobile source air toxics
MST	Monterey-Salinas Transit
MT	mainline track
MTC	Metropolitan Transportation Commission
MUN	municipal and domestic water supply
MW	megawatt
MWh	megawatt hour
N ₂ O	nitrous oxide
NAAQS	National Ambient Air Quality Standards

NAGPRA	Native American Grave Protection and Repatriation Act
NAHC	Native American Heritage Commission
NAVD 88	North American Vertical Datum of 1988
NCCAB	North Central Coast Air Basin
NCCP	Natural Community Conservation Plan
NCCPA	Natural Community Conservation Planning Act
NEPA	National Environmental Policy Act
NF	negative feeder
NFPA	National Fire Protection Association
NHD	National Hydrography Dataset
NHL	National Historic Landmark
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NMFS	National Marine Fisheries Service
NMR	nuclear magnetic resonance
NO	nitric oxide
NO ₂	nitrogen dioxide
NOA	naturally occurring asbestos
NOD	Notice of Determination
NOI	Notice of Intent
NOP	Notice of Preparation
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSR	new source review
O&M	operations and maintenance
O ₃	ozone
OAK	Oakland International Airport
OCC	operating control center
OCP	organochlorine pesticides
OCS	overhead contact system
OEHHA	Office of Environmental Health Hazard Assessment
OHP	California Office of Historic Preservation
OPR	Governor's Office of Planning and Research

OSHA	Occupational Safety and Health Administration
OWJ	official(s) with jurisdiction
PA	programmatic agreement
PAA	Preliminary Alternatives Analysis Report
PAH	polycyclic aromatic hydrocarbons
Pb	lead
PBDB	Paleobiology Database
PBF	physical or biological feature
PCB	polychlorinated biphenyl
PCE	primary constituent element
PCE	permanent construction easement
PCEP	Peninsula Corridor Electrification Project
PCJPB	Peninsula Corridor Joint Powers Board
PEC	potential environmental concern
PEPD	Preliminary Engineering for Project Definition
PG&E	Pacific Gas and Electric Company
PHA	preliminary hazard analysis
PI	principal investigator
PL	Public Law
PM	particulate matter
PM ₁₀	particulate matter smaller than or equal to 10 microns in diameter
PM _{2.5}	particulate matter smaller than or equal to 2.5 microns in diameter
PMT	program management team
PPD	pounds per day
PPDG	Project Planning and Design Guide
PPE	personal protective equipment
PPV	peak particle velocity
PRM	paleontological resources monitor
PRMMP	Paleontological Resources Monitoring and Mitigation Plan
PROC	industrial process water supply
project or project extent	San Jose to Central Valley Wye Project Extent (from Scott Boulevard in San Jose to Carlucci Road)
Project Section	San Jose to Merced Project Section
Prop 1A	The Safe, Reliable, High-Speed Passenger Train Bond Act for the 21st Century
PRPA	Paleontological Resources Preservation Act
PRS	paleontological resources specialist

PTC	positive train control
quad gate	four-quadrant gate
RCRA	Resource Conservation and Recovery Act
RF	radio frequency
RFI	radio-frequency interference
RFQ	request for qualifications
RIMS II	Regional Input-Output Modeling System II
RMS	root-mean-square
ROD	Record of Decision
ROG	reactive organic gases
RPS	Renewables Portfolio Standard
RRP	restoration and revegetation plan
RSA	resource study area
RTP	regional transportation plan
RWQCB	Regional Water Quality Control Board
SAA	<i>Supplemental Alternatives Analysis</i>
SAFE	Safer Affordable Fuel-Efficient
SAP	Station Area Planning
SB	(California) Senate Bill
SBCWD	San Benito County Water District
SBWR	South Bay Water Recycling
SCAQMD	South Coast Air Quality Management District
SCCC	south-central California coast
SCORP	Statewide Comprehensive Outdoor Recreation Plan
SCRWA	South County Regional Wastewater Authority
SCS	sustainable communities strategy
SCVHA	Santa Clara Valley Habitat Agency
SCVHP	Santa Clara Valley Habitat Plan
SCVOSA	Santa Clara Valley Open Space Authority
SCVURPPP	Santa Clara Valley Urban Runoff Pollution Prevention Program
SCVWD	Santa Clara Valley Water District
SCWRA	South County Regional Wastewater Authority
SEL	sound exposure level, dBA
SEMS	standardized emergency management system
SEPP	security and emergency preparedness plan
S.E.S.	Sociedade do Espiritu Santo
SF ₆	sulfur hexafluoride

SFBAAB	San Francisco Bay Area Air Basin
SFO	San Francisco International Airport
SFPUC	San Francisco Public Utilities Commission
SFTC	Salesforce Transit Center
SGMA	Sustainable Groundwater Management Act
SHPO	State Historic Preservation Officer
SIL	significant impact level
SIP	state implementation plan
SJC	Norman Y. Mineta San Jose International Airport
SJCE	San Jose Clean Energy
SJFD	San Jose Fire Department
SJMWS	San Jose Municipal Water System
SJVAB	San Joaquin Valley Air Basin
SJVAPCD	San Joaquin Valley Air Pollution Control District
SJWC	San Jose Water Company
SLCC	San Luis Canal Company
SLDMWA	San Luis and Delta-Mendota Water Authority
SLOAPCD	San Luis Obispo County Air Pollution Control District
SLWD	San Luis Water District
SNAP	Supplemental Nutrition Assistance Program
SO ₂	sulfur dioxide
SOI	Secretary of the Interior
SOQ	statement of qualifications
SO _x	sulfur oxides
SPCC	spill prevention control and countermeasure
SPRP	spill prevention response plan
SPRR	Southern Pacific Railroad
SR	State Route
SSMP	safety and security management plan
SST-FD	seismic specialists team-fault displacement
STB	Surface Transportation Board
STIP	Statewide Transportation Improvement Program
SVAWPC	Silicon Valley Advanced Water Purification Center
SVP	Silicon Valley Power
SVP	Society of Vertebrate Paleontology
SWP	State Water Project
SWPPP	stormwater pollution prevention plan

SWRCB	State Water Resources Control Board
T	Tesla
TAC	toxic air contaminant
TAIP	Terminal Area Improvement Plan
TAMC	Transportation Agency for Monterey County
TBM	tunnel-boring machine
TCE	temporary construction easement
TCP	traditional cultural property
TDV	Tunnel Design Variant
TGV	<i>Train à Grande Vitesse</i> (French high-speed train)
THPO	Tribal Historic Preservation Officer
TM	technical memorandum
TMDL	total maximum daily load
TOD	transit-oriented development
TPF	traction power facility
TPSS	traction power substation
TRA	trackage rights agreement
TSA	Transportation Security Administration
TVA	threat and vulnerability assessment
TWG	technical working group
UCERF3	Third Uniform California Earthquake Rupture Forecast
UCMP	University of California Museum of Paleontology
UGB	urban growth boundary
Uniform Act	Uniform Relocation Assistance and Real Property Acquisition Policies Act
UPR	Upper Pajaro River
UPRR	Union Pacific Railroad
US	U.S. Highway
USACE	U.S. Army Corps of Engineers
USACE Arid West Supplement	<i>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region</i>
USACE Delineation Manual	<i>Corps of Engineers Wetlands Delineation Manual</i>
USBR	U.S. Bureau of Reclamation
U.S.C	United States Code
USCS	Unified Soil Classification System
USBEA	U.S. Bureau of Economic Analysis
USDOI	U.S. Department of the Interior

USDOT	U.S. Department of Transportation
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
UTM	Universal Transverse Mercator
Valley to Valley	Silicon Valley to Central Valley
V/C	volume-to-capacity
VCP	vegetation control plan
VdB	vibration decibel(s)
VERA	voluntary emission reduction agreement
VFHS	Valley Fever Health and Safety
VHF	very high frequency
V/m	volts per meter
VMT	vehicle miles traveled
VOC	volatile organic compound
VTA	(Santa Clara) Valley Transportation Authority
VTP 2040	<i>Valley Transportation Plan 2040: The Long-Range Transportation Plan for Santa Clara County</i>
WCA	Wildlife Corridor Assessment
WCP	weed control plan
WEAP	worker environmental awareness program
WiFi	wireless fidelity
Williamson Act	California Land Conservation Act of 1965
WSE	water surface elevation
WWTP	wastewater treatment plant