

## **CHAPTER 8**

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### **ACRONYMS**

#### **Acronyms**



## 8.0 ACRONYMS

ABBREVIATION	DESCRIPTION
AAs	Administering Agencies
AB	Assembly Bill
AB32	California's Global Warming Solutions Act of 2006
AB939	California Integrated Waste Management Act of 1989
AB2588	Air Toxic "Hot Spots" Information and Assessment Act
ACGIH	American Conference of Governmental Industrial Hygienists
af	acre-feet
AFV	Alternative Fuel Vehicles
AIChE	American Institute of Chemical Engineers
ALUC	Airport Land Use Commission
AMP	Alternative Marine Power
ANPR	Advance Notice of Proposed Rulemaking
API	American Petroleum Institute
APS	Alternative Planning Strategy
AQMD	Air Quality Management District
AQMP	Air Quality Management Plan
ARB	Air Resources Board
ASTM	American Society for Testing and Materials
ATCM	Airborne Toxic Control Measure
ATCP	Air Toxics Control Plan
ATPZEVs	Advanced Technology Partial Zero-Emission Vehicles
AVL	automated vehicle location
AVR	Average Vehicle Ridership
AVTA	Advanced Vehicle Testing Activity
BACT	Best Available Control Technology
BACM	Best Available Control Measures
BARCT	Best Available Retrofit Control Technology
BART	Best Available Retrofit Technology
Basin	South Coast Air Basin
BAU	business-as-usual
BLEVE	boiling liquid expanding vapor explosion
BLM	Bureau of Land Management
BMP	Best Management Practices
BNSF	Burlington Northern Santa Fe Railway
BOD	Bio-chemical Oxygen Demand
BPTCP	Bay Protection and Toxic Clean Up Plan
Btu	British Thermal Units
Btu/hr	British Thermal Units per hour
°C	<a href="#">Degrees Centigrade</a>
CAA	Clean Air Act
CAAP	Clean Air Action Plan
CAFE	Corporate Average Fuel Economy
CaH2Net	California Hydrogen Highway Network

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CalARP	California Accidental Release Prevention Program
CalEMA	California Emergency Management Agency
CalEPA	California Environmental Protection Agency
CalRecycle	(formerly known as the California Integrated Waste Management Board)
Caltrans	California Department of Transportation
CalOSHA	California Occupational Safety and Health Administration
CARB	California Air Resources Board
CCAA	California Clean Air Act
CCC	California Coastal Commission
CCP	Clean Communities Plan
CCR	California Code of Regulations
CDF	California Department of Forestry and Fire Protection
CDPR	California Department of Parks and Recreation
CEC	California Energy Commission
CE-CERT	College of Engineering Center for Environmental Research and Technology
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CEQA	California Environmental Quality Act
CFCs	Chlorofluorocarbons
CFR	Code of Federal Regulations
CH <sub>4</sub>	Methane
CHMIRS	California Hazardous Materials Incident Reporting System
CHP	California Highway Patrol
CIP	Capital Improvement Program
CIWMB	California Integrated Waste Management Board
CIWMP	Countywide Integrated Waste Management Plan
CLEEN	Continuous Lower Energy, Emissions and Noise
CM	Control Measure
CMAAs	Congestion Management Agencies
CMB	Combustion Sources
CMPs	Congestion Management Programs
CMS	Congestion Management System
CMAQ	Community Multiscale Air Quality
CNEL	Community Noise Equivalent Level
CNG	Compressed Natural Gas
CNS	Central nervous system
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	CO <sub>2</sub> equivalents
COHb	Carboxyhemoglobin
CPUC	California Public Utilities Commission
CPSC	Consumer Products Safety Commission
CRA	Colorado River Aqueduct
CSI	California Solar Initiative

CTS	Coatings and Solvents
CUPA	Certified Unified Program Agency
CVRP	Clean Vehicle Rebate Pilot
CVWD	Coachella Valley Water District
CWA	Clean Water Act
CWAP	Clean Water Action Plan
CWM	Chemical Waste Management
CWMI	Chemical Waste Management Inc.
dB	decibels
dBA	decibels (A-weighted)
DC	direct current
Delta	Sacramento-San Joaquin Delta
DHS	Department of Health Services
DMC	dimethyl carbonate
DOT	Department of Transportation
DPF	Diesel Particulate Filters
DPM	Diesel Particulate Matter
DPR	Department of Pesticide Regulation
DRRP	Risk Reduction Plan to Reduce Particulate Matter Emissions from Diesel-Fueled Engines and Vehicles (also known as the Diesel Risk Reduction Plan)
DTSC	California Department of Toxic Substances Control
DTIM	Direct Travel Impact Model
DWR	California Department of Water Resources
EAP	Emergency Action Plan
ECA	Emissions Control Area
EDMS	Emissions and Dispersion Modeling System
EFMP	Enhanced Fleet Modernization Program
EHS	Extremely Hazardous Substances
EIA	Energy Information Administration
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EISA	Energy Independence and Security Act of 2007
EJ	Environmental Justice
EJAG	Environmental Justice Advisory Group
EMFAC	Emission Factors Model
EMFAC 2011	2011 Emission Factors model
EMWD	Eastern Municipal Water District
EOR	Enhanced Oil Recovery
EPA	Environmental Protection Agency
EPAct	Energy Policy Act
EPCRA	Emergency Planning and Community Right-to-Know Act
ERPG	Emergency Response Planning Guideline
ERPG-2	Emergency Response Planning Guide Level 2
ERPG-3	Emergency Response Planning Guide Level 3
ESP	Electrostatic Precipitators

EVs	Electric Vehicles
EVSE	electric vehicle supply equipment
E85	Ethanol
°F	Degrees Fahrenheit
FAA	Federal Aviation Administration
FCCU	Fluid Catalytic Cracking Unit
FCV	fuel cell vehicles
FDA	Food and Drug Administration
FDDA	four dimensional data assimilation
FEMA	Federal Emergency Management Agency
FEIR	Final Environmental Impact Report
FePo	iron phosphate
FESA	Federal Endangered Species Act
Fe <sub>2</sub> O <sub>3</sub>	iron oxide
FFVs	Flexible Fuel Vehicles
FHWA	Federal Highway Administration
FIP	Federal Implementation Plan
FMCSA	Federal Motor Carrier Safety Administration
FMVSS	Federal Motor Vehicle Safety Standard
FRA	Federal Railroad Administration
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
ft <sup>2</sup>	square feet
FUA	Fuel Use Act
FUG	Fugitive Emissions
GHG	Greenhouse Gas
GHGRP	Greenhouse Gas Reporting Program
GRAS	Generally Recognized As Safe
GVWR	gross vehicle weight rating
GWh	gigawatt hour
H <sub>2</sub>	Hydrogen
H <sub>2</sub> S	Hydrogen Sulfide
H <sub>2</sub> SO <sub>4</sub>	Sulfuric Acid
HAPs	Hazardous Air Pollutants
HCFCs	Hydrochlorofluorocarbons
HDV	Heavy Duty Vehicles
HEPA	High-Efficiency Particulate <del>Air</del> <a href="#">Arrestor</a>
HFCs	hydrofluorocarbons
HGS	Harbor Generating Station
HI	Hazard Index
HMTA	Hazardous Materials Transportation Act
HNO <sub>3</sub>	Nitric Acid
HOV	High Occupancy Vehicle
hp	horsepower
HRA	Health Risk Assessment
HOT	High-Occupancy Toll

HQTAs	High Quality Transit Areas
HSC	Health and Safety Code
HUD	Housing and Urban Development
HVIP	Hybrid Vehicle Incentives Project
HWCA	Hazardous Waste Control Act
HWMP	Hazardous Waste Management Plan
IARC	International Agency for Research on Cancer
ICEs	Internal Combustion Engines
ICTA	International Center for Technology Assessment
IDLH	Immediately Dangerous to Life and Health
IGR	Intergovernmental Review
IMO	International Maritime Organization
IM	industrial maintenance
IOUs	Investor Owned Utilities
IRP	Integrated Water Resources Plan
IRWD	Irvine Ranch Water District
ITS	Intelligent Transportation Systems
kW	Kilowatt
kWh	Kilowatt Hour
°K	degrees Kelvin
LAA	Los Angeles Aqueduct
LACDPW	Los Angeles County Department of Public Works
LACFD	Los Angeles County Fire Department
LACSD	Los Angeles County Sanitation Districts
LADPW	Los Angeles Department of Public Works
LADWP	Los Angeles Department of Water and Power
LAER	Lowest Achievable Emission Reduction
LAFCO	Local Agency Formation Commission
LAX	Los Angeles International Airport
LBGOD	Long Beach Gas & Oil Department
lbs	pounds
lbs/day	pounds per day
lbs/gal	pounds per gallon
lbs/hr	pounds per hour
LCFS	Low-Carbon Fuel Standard
LCP	local coastal program
LDAR	Leak Detection and Repair
LEAs	Local Enforcement Agencies
LEL	Lower Explosive Limit
LEPC	Local Emergency Planning Committee
LEV III	Low-Emission Vehicle
Leq	Equivalent Continuous Level
LID	Low Impact Development
Li-ion	lithium ion
Lmax	maximum measured noise level
LNG	Liquefied Natural Gas

LOS	Level of Service
LPG	Liquefied Petroleum Gas
LRP	Local Resources Program
LRT	light rail transit
LTCP	Long-Term Conservation Plan
LUPs	land use plans
LVP-VOC	low vapor pressure volatile organic compounds
MAF	Million acre-feet
MATES	Multiple Air Toxic Exposure Study
MATES II	Multiple Air Toxic Exposure Study II
MATES III	Multiple Air Toxic Exposure Study III
MCLs	Maximum Containment Levels
MDAB	Mojave Desert Air Basin
MECA	Manufacturer's of Emission Controls Association
MEGAN	Model of Emissions of Gases and Aerosols from Nature
MEK	methyl ethyl ketone
MeTHF	methylnetrahydrofuran
Metro	Los Angeles County Metropolitan Transit Authority
mgd	million gallons per day
mg/L	milligrams per liter
mg/m <sup>3</sup>	milligrams per cubic meter
MIBK	methyl isobutyl ketone
MIR	Maximum Incremental Reactivity
MMTCO <sub>2</sub> e	million metric tons of carbon dioxide equivalent
MnO	manganese oxide spinel
MoO <sub>3</sub>	molybdenic anhydride
MTCO <sub>2</sub> e/year	CO <sub>2</sub> equivalent emissions per year
MRFs	Material Recovery Facilities
MPO	Metropolitan Planning Organization
m/s	meters per second
MSDS	Material Safety Data Sheet
MSRC	Mobile Source Air Pollution Reduction Review Committee
MS4s	municipal separate storm sewer systems
MTBE	methyl tertiary butyl ether
MW	megawatts
Metropolitan	Metropolitan Water District of Southern California
MWD	Metropolitan Water District
M85	Methanol
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NCA	nickel-cobalt- aluminum
NCEP	National Centers for Environmental Prediction
NCM	nickel-cobalt-manganese
NCP	National Contingency Plan
NECPA	National Energy Conservation Policy Act
NEC	National Electric Code



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NESHAPS	National Emission Standards for Hazardous Air Pollutants
NPDES	National Pollutant Discharge Elimination System
NFC	National Fire Codes
NFPA	National Fire Protection Association
NHTSA	National Highway Traffic Safety Administration
NiMH	nickel-metal hydride
NIOSH	National Institute of Occupational Safety and Health
N <sub>2</sub>	Nitrogen
N <sub>2</sub> O	Nitrous Oxide
NO	Nitric Oxide
NO <sub>2</sub>	Nitrogen Dioxide
NOP	Notice of Preparation
NOP/IS	Notice of Preparation/Initial Study
NO <sub>x</sub>	Nitrogen Oxide
NPS	National Park Service
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NS	No significant impacts
NSPS	New Source Performance Standards
O <sub>2</sub>	Oxygen
O <sub>3</sub>	Ozone
OCA	Off-site Consequences Analyses
OCHCA	Orange County Health Care Agency
OCS	Outer Continental Shelf
OCSD	Orange County Sanitation District
OCTA	Orange County Transportation Authority
OCWD	Orange County Water District
ODS	Ozone Depleting Substances
OEHHA	Office of Environmental Health Hazards Assessment
OES	Office of Emergency Services
OHMS	Office of Hazardous Materials Safety
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Administration
PAHs	Polynuclear Aromatic Hydrocarbons
Pb	lead
PCBF	Perchlorobenzotrifluoride
PCBTF	p-chlorobenzotrifluoride
PCE	passenger car equivalents
PD	positive displacement
PEIR	Program Environmental Impact Report
PELs	Permissible Exposure Limits
PEVs	plug-in electric vehicles
PFCs	Perfluorocarbons
PG&E	Pacific Gas & Electric
pH	potential hydrogen ion concentration
PM	Particulate Matter

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PM10	particulate matter less than 10 microns equivalent aerodynamic diameter
PM2.5	particulate matter less than 2.5 microns equivalent aerodynamic diameter
POTW	Publicly Owned Treatment Works
POUs	publicly owned utilities
ppb	parts per billion
ppm	parts per million
PPV	peak particle velocity
Program EIR	Program Environmental Impact Report
PSD	Prevention of Significant Deterioration
psi	pounds per square inch
psig	pounds per square inch (gauge)
PSM	Process Safety Management
PSU	Primers, Sealers, and Undercoaters
PTFE	Polytetrafluoroethylene
PUC	Public Utilities Commission
PURPA	Public Utility Regulatory Policies Act of 1978
PV	Photovoltaic
PVC	Polyvinyl Chloride
PZEV	Partial Zero Emission Vehicle
PX	Power Exchange
Qfs	qualifying facilities
QSA	Quantified Settlement Agreement
QVT	Qualified Vehicle Testers
RCRA	Resource Conservation and Recovery Act
RCTC	Riverside County Transportation Commission
RECLAIM	Regional Clean Air Incentives Market
RELOOC	Regional Landfill Options for Orange County
RELS	Reference Exposure Levels
RFS	Renewable Fuel Standard
RFS2	2007 Renewable Fuel Standard
RHNA	Regional Housing Needs Assessment
RMP	Risk Management Program
RMS	Root Mean Squared
ROC	Reactive Organic Compound
ROG	Reactive Organic Gas
RPS	Renewable Portfolio Standard
RQs	Reportable Quantities
RRF	Relative Response Factors
RRWG	Reactivity Research Working Group
RSPA	Research and Special Programs Administration
RTAC	Regional Targets Advisory Committee
RTC	RECLAIM Trading Credit
RTIP	Regional Transportation Implementation Plan
RTP	Regional Transportation Plan

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RTP/SCS	Regional Transportation Plan/Sustainable Communities Strategy
RWQCB	Regional Water Quality Control Board
SAE	Society of Automotive Engineers
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users
SB	Senate Bill
SBS	sodium bisulfate
SCAB	South Coast Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCR	Selective Catalytic Reduction
SCRRA	Southern California Regional Rail Authority
SCS	Sustainable Communities Strategy
SCHWMA	Southern California Hazardous Waste Management Authority
SDG&E	San Diego Gas & Electric
SEL	Sound Exposure Level
SF <sub>6</sub>	Sulfur Hexafluoride
SGVEWP	San Gabriel Valley Energy Wise Program
SIP	State Implementation Plan
SNCR	selective non-catalytic reduction
SO <sub>2</sub>	sulfur dioxide
SO <sub>3</sub>	Sulfur Trioxide
SoCalGas	Southern California Gas Company
SOON	Surplus Off-Road Option for NO <sub>x</sub>
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxide
SPCC	Spill Prevention, Control and Countermeasure
SRRE	Source Reduction and Recycling Element
SSAB	Salton Sea Air Basin
STE	solar thermal energy
STEL	short-term exposure limits
SWFPs	Solid Waste Facility Permits
SWP	State Water Project
SWMD	Solid Waste Management Division
SWMP	Storm Water Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminant
TAF	Thousand Acre-Feet
TAO	Technology Advancement Office
TAZ	transportation analysis zone
TBA	tert-butyl alcohol
T-BAc	tertiary butyl acetate
TCM	Transportation Control Measure
TDM	Transportation Demand Management

TDS	Total Dissolved Solids
TEA-21	Transportation Equity Act for the 21st Century
TEUs	twenty-foot Equivalent Units
TiO <sub>2</sub>	titanium dioxide
TLVs	Threshold Limit Values
TMCs	Transportation Management Centers
TMDLS	Total Maximum Daily Loads
tpd	tons per day
tpy	tons per year
TRI	Toxic Release Inventory
TRUs	transport refrigeration units
TSCA	Toxic Substances Control Act
TSM	Transportation Systems Management
TSS	Total Suspended Solids
TWA	time-weighted average
UCI	University of California, Irvine
UCLA	University of California, Los Angeles
UEL	upper explosive limit
UFC	Uniform Fire Code
Union Pacific	Union Pacific Railroad
U.S.	United States
USBR	United States Bureau of Reclamation
U.S. ACOE	United States Army Corps of Engineers
U.S. DOE	United States Department of Energy
U.S. DOT	United States Department of Transportation
U.S. EPA	United States Environmental Protection Agency
U.S. FWS	United States Fish and Wildlife Service
U.S. FS	United States Forest Service
UP	Union Pacific Railroad
UST	Underground Storage Tank
UWA	Unified Watershed Assessment
V/C	Volume to Capacity Ratio
VGS	Valley Generating Station
VHD	Vehicle Hours of Delay
VHT	Vehicle Hours of Travel
VMT	Vehicle Miles Traveled
VOC	volatile organic compounds
V <sub>2</sub> O <sub>5</sub>	vanadium pentoxide
WBMWD	West Basin <a href="#">Metropolitan-Municipal</a> Water District
WCI	Western Climate Initiative
WDR	Waste Discharge Requirements
WGS	Wet Gas Scrubber
WO <sub>3</sub>	tungsten trioxide
WRD	Water Replenishment District
WRF	Weather Research and Forecasting Model
ZEV	Zero-Emission Vehicle

$\mu\text{g/l}$	micrograms per liter
$\mu\text{g/m}^3$	micrograms per cubic meter
<u><math>\mu\text{m}</math></u>	<u>micrometer or micron</u>

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