

Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
µg/L	microgram(s) per liter
µg/m ³	microgram(s) per cubic meter
µmho/cm	micromho(s) per centimeter
AAQS	ambient air quality standards
AB	Assembly Bill
AC	alternating current
ACC	air-cooled condenser
ac-ft	acre-foot (feet)
ADT	average daily traffic
AERMOD	American Meteorological Society/EPA Regulatory Model
AES-SLD	AES Southland Development, LLC
AES Corp.	AES Corporation
AFC	Application for Certification
AGR	agricultural supply (water use)
AGS	Alamitos Generating Station
ANSI/ASME	American National Standards Institute/American Society of Mechanical Engineers
AQRVs	air quality-related values
ARB	California Air Resources Board
AST	aboveground storage tank
BAAQMD	Bay Area Air Quality Management District
BACT	best available control technology
bgs	below ground surface
BIOS	<i>Biological Information and Observation System</i>
BLM	Bureau of Land Management
BMP	best management practices
BOE	State Board of Equalization
CAA	Clean Air Act
CAAQS	California ambient air quality standards
CaCO ₃	calcium carbonate
CAISO	California Independent System Operator
Cal-OSHA	California Occupational Safety and Health Administration

CalARP	California Accidental Release Program
Caltrans	California Department of Transportation
CAM	Compliance Assurance Monitoring
CAS	Chemical Abstract Service
CATEF	California Air Toxics Emission Factors
CBC	California Building Code
CCC	California Coastal Commission
CCR	California Code of Regulations
CDE	California Department of Education
CDFG	California Department of Fish and Game
CDP	Coastal Development Permit
CEC	California Energy Commission
CEDD	California Employment Development Department
CEDI	continuous electrodeionization
CEMS	Continuous Emission Monitoring System
CESA	California Endangered Species Act
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CGS	California Geologic Survey
CGT	combustion gas turbine
CH ₄	methane
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CIWMA	California Integrated Waste Management Act
CIWMB	California Integrated Waste Management Board
CNDDB	California Natural Diversity Database
CNPS	California Native Plant Society
CO	carbon monoxide
CO ₂	carbon dioxide
CO ₂ e	carbon dioxide equivalent
COD	commercial operation date
CPCU	California Public Utilities Commission
CPM	compliance project manager
CPT	cone penetrometer

CPUC	California Public Utilities Commission
CRHR	California Register of Historic Resources
CRS	Cultural Resource Specialist
CTG	combustion turbine generator
CUP	conditional use permit
CUPA	Certified Unified Program Agency
CVC	California Vehicle Code
CWA	Clean Water Act
dB	decibel(s)
dBA	decibel(s) (A-weighted scale)
DBE	design basis earthquake
DC	direct current
DCS	distributed control system
DESCP	drainage, erosion, and sediment control plan
DNL	day-night level
DOC	Department of Conservation
DOF	California Department of Finance
DPR	California Department of Parks and Recreation
DPW	Los Angeles County Department of Public Works
dscf	dry standard cubic feet
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EAF	equivalent availability factor
EDD	California Employment Development Department
EDR	Environmental Data Resources
EHS	Extremely Hazardous Substance
EIR	Environmental Impact Report
EMF	electromagnetic force
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement and Construction
EPCRA	Emergency Planning and Community Right-to-Know Act of 1986
EPS	emissions performance standard
ERPG	Emergency Response Planning Guideline
ERPG-1	Maximum airborne concentration below which nearly all individuals could be exposed for up to 1 hour without experiencing other than mild transient adverse health effects

ERPG-2	Maximum airborne concentration below which nearly all individuals could be exposed for up to 1 hour without developing irreversible or serious health effects
ERPG-3	Maximum airborne concentration below which nearly all individuals could be exposed for up to 1 hour without experiencing life-threatening health effects
ESA	Endangered Species Act
ESA	Environmental Site Assessment
ESHA	Environmentally Sensitive Habitat Area
FAA	Federal Aviation Administration
FAR	floor-area ratio
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FMMP	Farmland Mapping and Monitoring Program
ft-lbs/blow	foot-pounds per blow
FY	fiscal year
GEP	Good engineering practice
GHG	greenhouse gas
GO	General Order
gpm	gallon(s) per minute
gr/100 scf	grain(s) per 100 standard cubic feet
GRP	General Reporting Protocol
GSU	generator step-up
GWP	global warming potential
H ₂ S	hydrogen sulfide
H ₂ SO ₄	sulfuric acid
HAP	hazardous air pollutants
HARP	<i>Hotspots Analysis Reporting Program</i>
HBEP	Huntington Beach Energy Project
HBFD	Huntington Beach Fire Department
HCM	Highway Capacity Manual
HCP	Habitat Conservation Plan
HFCs	Hydrofluorocarbons
HMBP	Hazardous Materials Business Plan
hp	horsepower
HRA	health risk assessment
HRSG	heat recovery steam generator
HWCL	Hazardous Waste Control Law

I-405	Interstate 405
IDLH	Immediately dangerous to life and health
IEPR	Integrated Energy Policy Report
IND	industrial service supply (water use)
ISO	International Organization for Standardization
K	degrees Kelvin
km	kilometer(s)
KOP	key observation point
kV	kilovolt(s)
kWh	kilowatt hour
LADWP	Los Angeles Department of Water and Power
lb/hr	pound(s) per hour
LCP	Local Coastal Plan
LD ₅₀	Dose lethal to 50 percent of those tested
L _{dn}	day-night noise level
LEA	Local Enforcement Agency
LEPC	local emergency planning committee
L _{eq}	equivalent noise level
LHV	lower heating value
L _n	percentile noise level
LORS	laws, ordinances, regulations, and standards
LOS	level of service
LST	Localized Significance Threshold Methodology
LTE	low-temperature economizer
m/s	meter(s) per second
MACT	maximum achievable control technology
MBTA	Migratory Bird Treaty Act
MCC	motor control center
MCL	maximum contaminant level
MD	Metropolitan District
MEIR	maximum exposed individual resident
MEIW	maximum exposed individual worker
mG	milligauss
mg/kg	milligram(s) per kilogram
mg/L	milligram(s) per liter
mg/m ³	milligram(s) per cubic meter

mgd	million gallon(s) per day
MICR	maximum individual cancer risk
mm	millimeter(s)
MMBtu/hr	million Btu per hour
MOA	Memorandum of Agreement
mph	miles per hour
MPSA	Mitsubishi Power Systems Americas
MSA	Metropolitan Statistical Area
MSDS	Material Safety Data Sheets
MSG	multi-stage generating
MTBE	methyl tertiary butyl ether
MUN	municipal and domestic supply (water use)
MW	megawatt(s)
MWD	Metropolitan Water District of Southern California
N ₂ O	Nitrous oxide
NA	not applicable
NAAQS	National Ambient Air Quality Standards
NAD	North American Datum
NAHC	Native American Heritage Commission
NCCP	Natural Community Conservation Plan
ND	not detected/detectable
NDE	nondestructive examination
NEC	National Electrical Code
NED	National Elevation Dataset
NEPA	National Environmental Policy Act
NESC	National Electrical Safety Code
NESHAP	National Emissions Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
ng/J	nanogram(s) per Joule
NH ₃	ammonia
NHRP	National Register of Historic Places
NIFZ	Newport-Inglewood fault zone
NO	nitric oxide
NO ₂	nitrogen dioxide
NOI	Notice of Intent
NO _x	oxides of nitrogen

NPS	National Park Service
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NSPS	New Source Performance Standards
NSR	New Source Review
NTU	nephelometric turbidity unit(s)
NWI	National Wetlands Inventory
O&M	operations and maintenance
O ₂	oxygen
OC HCA-EHD	Orange County Health Care Agency- Environmental Health Division
OCA	Offsite Consequences Analysis
OCSD	Orange County Sanitation District
OCTA	Orange County Transportation Authority
OCWD	Orange County Water District
OEHHA	Office of Environmental Health Hazard Assessment
OSHA	Occupational Safety and Health Administration
OTC	once-through cooling
P	Public
PAH	polyaromatic hydrocarbons
PCB	polychlorinated biphenyl
PCE	Passenger Car Equivalent
PCE	perchloroethylene
PCH	Pacific Coast Highway
pCi/L	picocurie(s) per liter
PEL	OSHA-permissible exposure limit for 8-hour workday
PFCs	Perfluorocarbons
PGA _{DBE}	design peak ground acceleration design basis earthquake
PGA _{MCE}	peak ground acceleration maximum credible earthquake
PG&E	Pacific Gas and Electric Company
PM ₁₀	particulate matter with aerodynamic diameter less than or equal to 10 microns
PM _{2.5}	particulate matter with aerodynamic diameter less than or equal to 2.5 microns
PMI	point of maximum impact
ppb	part(s) per billion
ppbv	part(s) per billion by volume
PPE	Personal Protective Equipment
ppm	part(s) per million

ppmv	part(s) per million by volume
ppmvd	part(s) per million by volume, dry basis
ppmvd _c	part(s) per million by volume, corrected to 15 percent O ₂
ppmw	part(s) per million by weight
PRC	Public Resources Code
PRMMP	Paleontological Resources Monitoring and Mitigation Plan
PROC	industrial process supply (water use)
PRS	Paleontological Resources Specialist
PS	Public-Semi-Public
PSD	Prevention of Significant Deterioration
psi	pounds per square inch
PTC	Permit to Construct
PTE	potential to emit
PTO	Permit to Operate
Pub. L.	Public Law
PVMRM	AERMOD Plume Volume Molar Ratio Method
RA	Residential Agriculture
RCRA	Resource Conservation and Recovery Act of 1976
REL	Reference Exposure Levels
RMP	Risk Management Plan
RPS	Renewable Portfolio Standard
RO	reverse osmosis
RQ	reportable quantities
RTCs	RECLAIM trading credits
RUSLE2	Revised Universal Soil Loss Equation
RV	recreational vehicle
RWQCB	Regional Water Quality Control Board
S&HC	California Streets and Highways Code
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill 1368 – Emissions Performance Standards
SCAB	Southern California Air Basin
SCAQMD	South Coast Air Quality Management District
SCE	Southern California Edison
SCR	selective catalytic reduction
SEADIP	Southeast Area Development Improvement Plan
SERC	State Emergency Response Commission

SF ₆	Sulfur hexafluoride
SIL	significance impact levels
SMARTS	Stormwater Multiple Application and Report Tracking System
SMMAAT	site monthly maximum average ambient temperature
SO ₂	sulfur dioxide
SoCalGas	Southern California Gas Company
SO _x	oxides of sulfur
SPCC	Spill Prevention Control and Countermeasure
SPSAT	site peak summer ambient temperature
STEL	Short-term exposure limit, 15-minute exposure
STG	steam turbine generator
SVP	Society of Vertebrate Paleontology
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
3-D	three-dimensional
TAC	toxic air contaminant
T-BACT	best available control technology for toxics
TCE	trichloroethylene
TCR	The Climate Registry
TDS	total dissolved solids
TEWAC	totally enclosed water to air cooled
TLV	ACGIH threshold limit value for 8-hour workday
TMDL	total maximum daily load
TMP	Transportation Management Plan
TOC	total organic carbon
TPQ	threshold planning quantities
tpy	ton(s) per year
TSDf	treatment, storage, and disposal facility
TSP	total suspended particulates
TWA	NIOSH time-weighted average for 8-hour workday
UCMP	University of California Museum of Paleontology at Berkeley
UPS	uninterruptible power supply
USC	United States Code
USDA	United States Department of Agriculture
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey

UTM	Universal Transverse Mercator Projection
V/C	volume/capacity
VOC	volatile organic compound
WRCC	Western Regional Climate Center
yd ³	cubic yard(s)
ZLD	zero liquid discharge