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Filer:	Tiffani Winter
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Acronyms and Abbreviations

$\mu\text{g}/\text{m}^3$	microgram(s) per cubic meter
$^{\circ}\text{F}$	degree(s) Fahrenheit
$\mu\text{g}/\text{L}$	microgram(s) per liter
$\mu\text{g}/\text{m}^3$	microgram(s) per cubic meter
$\mu\text{mho}/\text{cm}$	micromhos per centimeter
3-D	three-dimensional
AB	Assembly Bill
AC	Alternating Current
ACM	asbestos-containing material
ACS	American Community Survey
ADT	Average daily traffic
AEC	Alamitos Energy Center
AERMOD	American Meteorological Society / EPA Regulatory Model
AES-SLD	AES Southland Development, LLC
AFC	Application for Certification
AFY	acre-feet per year
ALS	Advanced Life Support
AQRV	air quality-related values
ARB	California Air Resources Board
ASME	American Society of Mechanical Engineers
AST	aboveground storage tanks
ASTM	American Society for Testing and Materials
BACT	best available control technology
bgs	below ground surface
BIOS	Biogeographic Information and Observation System
BLM	Bureau of Land Management
BLS	Basic Life Support
BMP	best management practices
BNSF	Burlington Northern Santa Fe
BOE	California Board of Equalization
Btu/kWh	British thermal units per kilowatt hour
C&D	construction and demolition
C_2H_6	ethane

C ₃ H ₈	propane
C ₄ H ₁₀	butane
C ₅ H ₁₂	pentane
C ₆ H ₁₄	hexane
CAA	Clean Air Act
CAAQS	California Ambient Air Quality Standards
CAISO	California Independent System Operator
Cal/OSHA	California Division of Occupational Safety and Health
CalARP	California Accidental Release Program
CalEPA	California Environmental Protection Agency
Caltrans	California Department of Transportation
CAM	Compliance Assurance Monitoring
CAS	Chemical Abstract Service
CBC	California Building Code
CCC	California Coastal Commission
CCGT	combined-cycle gas turbine
CCR	California Code of Regulations
CDE	California Department of Education
CDFW	California Department of Fish and Wildlife
CDOGGR	California Division of Oil, Gas and Geothermal Resources
CDP	Coastal Development Permit
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESA	California Endangered Species Act
CFR	Code of Federal Regulations
CGS	California Geologic Survey
CH ₄	methane
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CIP	Capital Improvement Program
CIWMA	California Integrated Waste Management Act
cm	centimeter(s)
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
CPM	compliance project manager
CPT	cone penetration test
CPUC	California Public Utilities Commission
CRHR	California Register of Historic Resources
CRS	Cultural Resource Specialist
CSC	Species of Special Concern
CTG	combustion turbine generator
CUPA	Certified Unified Program Agency
CVC	California Vehicle Code
CWA	Clean Water Act
dB	decibel
dBA	a-weighted sound pressure level
DBE	design basis earthquake
DC	direct current
DCS	distributed control system
DESCP	Drainage, Erosion, and Sediment Control Plan
DOC	California Department of Conservation
DOF	California Department of Finance
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
dscf	dry standard cubic feet
DTSC	California Department of Toxic Substance Control
DU	dwelling unit
DWR	California Department of Water Resources
EAF	equivalent availability factor
EDD	California Employment Development Department
EDR	Environmental Data Resources
EFZ	Earthquake Fault Zone
EHS	Extremely Hazardous Substance
EMF	electromagnetic force
EMS	Environmental Management Strategies, Inc.

EMT	Emergency Medical Technician
EPA	U.S. Environmental Protection Agency
EPC	Engineering, Procurement, and Construction
EPCRA	Emergency Planning and Community Right-to-Know Act of 1986
ESA	Endangered Species Act
ESA	Environmental Site Assessment
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FDOT	Florida Department of Transportation
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FHWA	Federal Highway Administration
FLM	Federal Land Manager
FMMP	Farmland Mapping and Monitoring Program
FSA	Final Staff Assessment
ft-lbs/blow	foot pounds per blow
FY	fiscal year
GEP	good engineering practice
GFCI	ground fault circuit interrupter
GHG	greenhouse gas
GIS	geographic information system
GO	General Order
gpm	gallon(s) per minute
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	ARB Hotspots Analysis Reporting Program
HBEP	Huntington Beach Energy Project
HCM	<i>Highway Capacity Manual</i>
HFCs	hydrofluorocarbons
HIST UST	historical underground storage tank
HMBP	Hazardous Materials Business Plan

hp	horsepower
HRA	human health risk assessment
HRSG	heat recovery steam generator
HSP	Health and Safety Plan
HWCL	Hazardous Waste Control Law
Hz	hertz
I/O	Input-Output
I-405	Interstate 405
ICU	Intersection Capacity Utilization
IMPROVE	Interagency Monitoring of Protected Visual Environments
ISC	Industrial Source Complex
ISO	International Organization for Standardization
ITP	Incidental Take Permit
ITS	Incidental Take Statement
JWPCP	Sanitation Districts of Los Angeles County's Joint Water Pollution Control Plant
km	kilometer(s)
KOP	key observation point
kV	kilovolt(s)
kW	kilowatt(s)
L/kg/day	liter(s) per kilogram per day
LACM	Los Angeles County Museum of Natural History
LACSD	Sanitation Districts of Los Angeles County
LADWP	Los Angeles Department of Water and Power
LAX	Los Angeles International Airport
lb CO ₂ e/MWh	pound(s) of CO ₂ e per megawatt hour
lb/day	pound(s) per day
lb/event	pound(s) per event
lb/hr	pound(s) per hour
lb/MMBtu	pound(s) per million British thermal unit
lb/yr	pound(s) per year
Lbfd	Long Beach Fire Department
LBMC	City of Long Beach Municipal Code
Lbpd	Long Beach Police Department
LBT	Long Beach Transit
LBWD	City of Long Beach Water Department

LCP	Local Coastal Program
LCWRP	Los Coyotes Water Reclamation Plant
L _{dn} or DNL	Day-Night Noise Level
LEPC	local emergency planning committee
L _{eq}	Equivalent Sound Level
LGB	Long Beach Airport
LHV	lower heating value
L _n	percentile level
LORS	laws, ordinances, regulations and standards
LOS	level of service
LTE	low temperature economizer
LUD	Land Use Designation
m/s	meter(s) per second
MACT	maximum achievable control technology
MBTA	Migratory Bird Treaty Act
MCC	motor control centers
MCE	maximum considered earthquake
MCL	maximum contaminant level
MD	Metropolitan District
MEIR	maximum exposed individual resident
MEIW	maximum exposed individual worker
Metro	Los Angeles County Metropolitan Transportation Authority
mG	milligauss
mg/kg day	milligram(s) per kilogram per day
mg/L	milligram(s) per liter
mg/m ³	milligram(s) per cubic meter
mgd	million gallons per day
MICR	maximum individual cancer risk
MIG	Minnesota IMPLAN Group
MMBtu	million British thermal unit(s)
MOA	Memorandum of Agreement
mph	mile(s) per hour
MPRM	Meteorological Processor for Regulatory Modeling Applications
MPSA	Mitsubishi Power Systems America
MRZ	mineral resource zones

MSA	Metropolitan Statistical Area
MSG	multi-stage generating
MT	metric ton(s)
MW	megawatt(s)
MWD	Metropolitan Water District of Southern California
N ₂	nitrogen
N ₂ O	nitrous oxide
NA	not applicable
NAAQS	National Ambient Air Quality Standards
NAD	North American Datum
NADB	National Archaeological Database
NCEER	National Center for Earthquake Engineering Research
ND	not detected
NEC	National Electrical Code
NESC	National Electrical Safety Code
NESHAP	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
ng/L	nanogram(s) per liter
NH ₃	ammonia
NHPA	National Historic Preservation Act
NIFZ	Newport-Inglewood Fault Zone
NO	nitric oxide
NO ₂	nitrogen dioxide
NOI	Notice of Intent
NO _x	oxides of nitrogen
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
NSPS	New Source Performance Standards
NSR	New Source Review
NTU	nephelometric turbidity unit
O&M	operations and maintenance
O ₂	oxygen
OCA	Offsite Consequences Analysis
OCTA	Orange County Transportation Authority
OEHHA	Office of Environmental Health Hazard Assessment

OHP	Office of Historic Preservation
OSHA	U.S. Occupational Safety and Health Administration
OTC	once-through cooling
OTC Policy	<i>Water Quality Control Policy on the Use of Coastal and Estuarine Waters for Power Plant Cooling</i>
PCB	polychlorinated biphenyl
PCE	passenger car equivalent unit
PCE	perchloroethene
PCH	Pacific Coast Highway
pCi/L	picocuries per liter
PFCs	perfluorocarbons
PG&E	Pacific Gas and Electric Company
PGA	peak ground acceleration
PGA _{DBE}	design basis earthquake
PGA _{MCE}	Maximum Considered Earthquake
PM	particulate matter
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	parts per billion
ppbv	parts per billion by volume
PPE	personal protective equipment
ppm	parts per million
ppmv	parts per million by volume
ppmvd	parts per million by volume, dry basis
ppt	parts per trillion
PRMMP	Paleontological Resources Mitigation and Monitoring Plan
PRS	paleontological resources specialist
PSD	Prevention of Significant Deterioration
psi	pound(s) per square inch
PST	Pacific Standard Time
PTC	Permit to Construct
PTE	potential to emit
PTO	Permit to Operate
PTS	permanent threshold shift

Pub. L.	Public Law
Q/D factor	emissions/distance factor
REC	Recognized Environmental Condition
RECLAIM	Regional Clean Air Incentives Market
REL	Reference Exposure Level
RMP	Risk Management Plan
ROW	right-of-way
RQ	reportable quantities
RUSLE2	Revised Universal Soil Loss Equation Program
RWQCB	Regional Water Quality Control Board
S&HC	California Street and Highways Code
SAAT	site annual average ambient temperature
SCAB	Southern California Air Basin
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCR	selective catalytic reduction
SEADIP	City of Long Beach South East Area Development and Improvement Plan
SERC	State Emergency Response Commission
SF ₆	sulfur hexafluoride
SIL	Significant Impact Level
SMARTS	Stormwater Multiple Application and Report Tracking System
SMGB	State Mining and Geology Board
SNA	John Wayne Airport
SO ₂	sulfur dioxide
SoCalGas	Southern California Gas Company
SONGS	San Onofre Nuclear Generating Station
SPCC	Spill Prevention Control and Countermeasure
SPSAT	site peak summer ambient temperature
SR	State Route
SSURGO	Soil Survey Geographic Database
STATSGO2	Digital General Soil Map of the United States
STG	steam turbine generator
SUSMP	Standard Urban Storm Water Mitigation Plan

SVOC	semivolatile organic compound
SVP	Society of Vertebrate Paleontology
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	toxic air contaminant
T-BACT	best available control technology for toxics
TCA	1,1,1-trichloroethane
TCE	trichloroethene
TCR	The Climate Registry
TDS	total dissolved solids
TEWAC	totally enclosed water-to-air-cooled
TIWRP	City of Los Angeles Terminal Island Water Reclamation Plant
TMDLs	total maximum daily loads
TMP	Transportation Management Plan
TPQ	threshold planning quantities
tpy	ton(s) per year
TQ	threshold quantity
TSP	total suspended particulates
TTHM	total trihalomethanes
UCMP	University of California Museum of Paleontology
UNEP	United Nations Environment Programme
UPS	uninterruptible power supply
USC	United States Code
USDA	United States Department of Agriculture
USFS	U.S. Forest Service
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
UST	underground storage tank
UTM	Universal Transverse Mercator Projection
V/C	volume to capacity
VOC	volatile organic compound
WDR	waste discharge requirements
WPA	Work Progress Administration
WRCC	Western Regional Climatic Center
yd ³	cubic yard