

## List of Acronyms and Abbreviations

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°C	degrees Celsius
°F	degrees Fahrenheit
μPa	micropascals
3D	three-dimensional
AA	Administering Agency
AADT	average annual daily traffic
AAF	Army Air Forces
AB	Assembly Bill
AB32	California Global Warming Solutions Act
AC	Advisory Circular; alternating current
ACC	Air Cooled Condenser
ACEC	Area of Critical Environmental Concern
ACHP	Advisory Council on Historic Preservation
ACN	Aggregate Construction Noise
ADT	average daily traffic
AEFI	American Energy Fields, Inc.
AERMIC	American Meteorological Society/Environmental Protection Agency Regulatory Model Improvement Committee
AERMOD	atmospheric dispersion modeling system
AFC	Application for Certification
afy	acre-feet per year
AG	"Agriculture"
ags	above ground surface
AM	amplitude modulation
AML	Abandoned Mine Lands; Appropriate Management Level
AMLU	Abandoned Mine Lands Unit
amsl	above mean seal level
AP	Alquist-Priolo
APCD	Air Pollution Control District
APN	Assessor's Parcel Number
Applicant	Rio Mesa Solar I, LLC, Rio Mesa Solar II, LLC, and Rio Mesa Solar III, LLC
AQIA	Air Quality Impact Analysis
AQMD	Air Quality Management Districts
ARZC	Arizona and California Railroad
ASTM	American Society for Testing and Materials
ATC	Authority to Construct
ATCM	Air Toxic Control Measure
AVT	all-volatile treatment
BAC	United States Bureau of Air Commerce
BACT	best available control technology
bara	bar absolute
BCC	Birds of Conservation Concern

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BGEPA	Bald and Golden Eagle Protection Act
BLM	United States Bureau of Land Management
BMP	best management practice
BMPs	Best Management Practices
BNSF	Burlington Northern Santa Fe Railroad
BP	before present
BPA	Bonneville Power Administration
BrightSource	BrightSource Energy, Inc.
BRMIMP	Biological Resources Mitigation Implementation Monitoring Plan
BSPP	Blythe Solar Power Project
btoc	below top of casing
BTR	Biological Technical Report
C&D	Construction and Demolition
CAA	Clean Air Act; Civil Aeronautics Administration
CAAQS	California Ambient Air Quality Standards
CADD	computer-aided drafting and design
CAFEP	Corona and Field Effects Program
CAISO	California Independent System Operator
Cal/EPA	California Environmental Protection Agency
CalARP	California Accidental Release Program
Cal-OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
C-AMA	California-Arizona Maneuver Area
CARB	California Air Resources Board
CBC	California Building Code
CBO	Chief Building Officer
CCR	California Code of Regulations
CDC	California Department of Conservation
CDCA	California Desert Conservation Area
CDCA Plan	California Desert Conservation Area Plan
CDFA	California Department of Food & Agriculture
CDFG	California Department of Fish and Game
CDMG	California Department of Conservation Division of Mines and Geology
CDP	Census Designated Place
CDPA	California Desert Protection Act
CDPH	California Department of Public Health
CEC	California Energy Commission
CEM	continuous emission monitoring
CEMS	continuous emissions monitoring system
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act

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CFA	California Food and Agriculture
CFATS	Chemical Facility Anti-Terrorism Standards
CFR	Code of Federal Regulations
CGS	California Geological Survey
CHL	California Historical Landmarks
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CHWCA	California Hazardous Waste Control Act
City	City of Blythe, California
CIWMA	California Integrated Waste Management Act
CMAGR	Chocolate Mountains Aerial Gunnery Range
CNDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPS	California Native Plant Survey
CNWR	Cibola National Wildlife Refuge
CO	carbon monoxide
COD	commercial online date
Construction General Permit	General Permit for Stormwater Discharges Associated with Construction Activity
CPHI	California Points of Historical Interest
CPT	Cone Penetration Test
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRM	Cultural Resources Manager
CRMMP	Cultural Resources Monitoring and Mitigation Plan
CRS	Colorado River Substation; Cultural Resources Specialist
CSA	County Service Area
CSP	concentrating solar power
CUP	Conditional Use Permit
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CWC	California Water Code
DAS	data acquisition system
dB	decibels
dba	decibels A-weighted
DC	Direct Current
DCH	Designated Critical Habitat
DCS	distributed control system
DDESB	Department of Defense Explosives Safety Board
DEH	Riverside County Department of Environmental Health
DEM	Digital Elevation Map
DESCP	Drainage, Erosion, and Sediment Control Plan

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DHS	United States Department of Homeland Security; California State Department of Health Services
DOC	Determination of Compliance
DOE	United States Department of Energy
DOF	California Department of Finance
DOI	United States Department of the Interior
DOT	United States Department of Transportation
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DPT	Distributed Power Tower
DPV	Devers-Palo Verde
DSSF	Desert Sunlight Solar Farm
DTC	Desert Training Center
DTSC	California Department of Toxic Substances Control
DWMA	Desert Wildlife Management Area
DWR	California State Department of Water Resources
EAF	equivalent availability factor
ECI	Earth Consultants International
ECM	Environmental Compliance Manager
EDD	California Employment Development Department
EFZ	Earthquake Fault Zone
EIC	Easter Information Center
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EMF	electromagnetic field
EO	Executive Order
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act
EPRI	Electric Power Research Institute
EPS	Emissions Performance Standards
ES	Environmental Statement
ESA	Endangered Species Act; Environmental Site Assessment
ESERC	Empire State Electric Energy Research Company
EVA	evaporation-steam generation
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulations
FCR	Field Contact Representative
FDOC	Federal Determination of Compliance
FEMA	Federal Emergency Management Agency
FERC	Federal Energy Regulatory Commission
FGR	flue gas recirculation
FHWA	Federal Highway Administration

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FIRM	Flood Insurance Rate Map
FLMPA	Federal Land Management Policy Act
FLPMA	Federal Land Policy and Management Act
FM	Factory Mutual; frequency modulation
FMMP	Farmland Mapping and Monitoring Program
FP	Fully Protected
FSA	Final Staff Assessment
FSC	Federal Species of Concern
FT	Federal Threatened
ft	feet
GC	Government Code
GCB	generator circuit breaker
gen-tie line	generator tie line
GEP	good engineering practices
GHG	greenhouse gas
GHz	giga-hertz
GIP	Generator Interconnection Procedures
GIS	Geographic Information Systems
GO	General Order
gpd	gallons per day
gpm	gallons per minute
GPS	Global Positioning Service
gr/dscf	grains per dry standard cubic foot
GSEP	Genesis Solar Energy Project
GSU	Generator Step-up Unit
GSUS	Generator Step-up Substation
Guidelines	(Clean Water Act) Guidelines
HA	Herd Area
HAP	hazardous air pollutant
HARP	Hotspots Analysis and Reporting Program
HazMat	Hazardous Materials
HDPE	high-density polyethylene
HEC-RAS	Hydrologic Engineering Center River Analysis System
HMA	Herd Management Area
HMBP	Hazardous Materials Business Plan
HMMD	Riverside County Department of Environmental Health Hazardous Materials Management Division
HP	high pressure
HPD	hearing protection device
HRA	Health Risk Assessment
HSC	Health and Safety Code
HTF	Heat Transfer Fluid

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Hz	hertz
I/O	input/output
I-10	Interstate 10
IEEE	Institute of Electrical and Electronic Engineers
IGCC	Integrated Gasification Combined Cycle
IID	Imperial Irrigation District
IIPP	Illness and Injury Prevention Plan
inHgA	inches of mercury absolute
IP	intermediate pressure
IR	Interconnection Request
ISO	International Organization for Standardization
JHA	Job Hazard Analysis
ka	thousand years
kHz	kilo-hertz
km/hr	kilometers per hour
KOP	key observation point
KPRA	Kingpin-to-rear-axle
kV	Kilovolt
kV/m	kilovolts per meter
LAER	Lowest Achievable Emissions Rates
lb	pound
LC	Landscape Character; load center
LCD	liquid crystal diode
Ldn	day-night average sound level
LEA	Local Enforcement Agency
LEDPA	Least Environmentally Damaging Practicable Alternative
Leq	energy-mean dBA during a measured time interval
Lmax	maximum Leq
Lmin	minimum Leq
LORS	Laws, Ordinances, Regulations and Standards
LOS	level of service
LP	low pressure
Lp	sound pressure level
LSAA	Lake and Streambed Alternation Agreement
LT	long-term
LTVA	Long Term Visitor Area
Lw	sound power level
m	meters
m	meter
mA	milliampere
MAWP	Maximum Allowable Working Pressure
MBTA	Migratory Bird Treaty Act

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MCC	mesoscale convective complex; motor control center
MCL	maximum contaminant level
MDAB	Mojave Desert Air Basin
MDAQMD	Mojave Desert Air Quality Management District
MDSS	Material Data Safety Sheet
MEC	Munitions and Explosives of Concern
MEI	Maximum Exposed Individual
MEIR	Maximum exposed individual at residential locations
MEIW	maximally exposed individual worker
MEW	maximally exposed worker
mG	milligauss
mg/L	milligrams per liter
mgd	million gallons per day
MHz	mega-hertz
MICR	Maximum Incremental Cancer Risk
MOU	Memorandum of Understanding
mph	miles per hour
MRZ	Mineral Resource Zones
MUC	Multiple Use Class
MW	Megawatt
MWD	Metropolitan Water District of Southern California
MWH	megawatt-hour
N-A	Natural Assets
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NECO	Northern and Eastern Colorado
NECO Plan	Northern and Eastern Colorado Desert Resource Management Plan
NED	National Elevation Dataset
NEPA	National Environmental Policy Act
NERC	North America Electric Reliability Council
NESC	National Electrical Safety Code
NESHAPs	National Emission Standards for Hazardous Air Pollutants
NFPA	National Fire Protection Association
NHPA	National Historic Preservation Act
NIEHS	National Institute of Environmental Health Sciences
NIOSH	National Institute of Occupational Safety and Health
NO <sub>2</sub>	Nitrogen dioxide
NOA	Notice of Availability
NOI	Notice of Intent
Nox	nitrogen oxides
NPCA	Notice of Proposed Construction or Alteration

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NPDES	National Pollutant Discharge Elimination System
NPPA	Native Plant Protection Act
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NSPS	New Source Performance Standards
NSR	New Source Review
NTZ	near tower zone
NWI	National Wetlands Inventory
NWIS	National Water Information System
NWP	Nationwide Permit
NWR	National Wildlife Refuge
O&M	Operations and Maintenance
O <sub>2</sub>	oxygen
O <sub>3</sub>	ozone
OBCF	octave band center frequency
OEHHA	California Office of Environmental Health Hazard Assessment
OHV	Off-Highway Vehicle
OHWM	ordinary high water mark
OPGW	Optical Ground Wire
OPR	California Office of Planning and Research
OSD	Official Series Descriptions
OSHA	Occupational Health and Safety Administration
OS-R	"Open Space - Rural"
PAHs	polycyclic aromatic hydrocarbons
Pb	Lead
PC	personal computer
PDCS	Partial dry cooling system
PEA	Programmatic Environmental Assessment
PEMS	Predictive Emissions Monitoring System
PFYC	Potential Fossil Yield Classification
PGA	peak ground acceleration
PHA	Project Historic Archaeologist
PL	Public Law
PM	particulate matter
PM <sub>10</sub>	particulate matter less than 10 microns in diameter
PM <sub>2.5</sub>	particulate matter less than 2.5 microns in diameter
POI	point of interconnection
POP	point of presence
PPA	Power Purchase Agreement; Project Prehistoric Archaeologist
ppb	parts per billion
ppbv	parts per billion per volume

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PPE	personal protective equipment
ppm	parts per million
ppmv	parts per million by volume
PRC	Public Resources Code
PRMMP	Paleontological Resources Monitoring and Mitigation Program
Project	Rio Mesa Solar Electric Generating Facility
PSD	prevention of significant deterioration
PSEZ	proposed solar energy zones
psia	pounds-force per square inch absolute
PSPP	Palen Solar Power Project
PTNCL	Prehistoric Trail Network Cultural Landscape
PTO	Permit to Operate
PUC	Public Utilities Code
PV	Photovoltaic
PVC	polyvinyl chloride
PVID	Palo Verde Irrigation District
PVMGB	Palo Verde Mesa Groundwater Basin
PVVGB	Palo Verde Valley Groundwater Basin
PVVTA	Palo Verde Valley Transit Agency
PWL	sound power level
Qa	younger alluvium
Qal	Quaternary alluvium
Qc	Pleistocene nonmarine deposits
Qoa	older Quaternary alluvium
Qpv	alluvial deposits of Palo Verde Mesa
QTa	alluvial fan and fluvial deposits
RCFC	Riverside County Flood Control
RCFD	Riverside County Fire Department
RCGP	Riverside County General Plan
RCNM	Roadway Construction Noise Model
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
RELS	Noncancer Reference Exposure levels
RFP	Request for Proposal
RI	Radio Interference
Rio Mesa SEGF	Rio Mesa Solar Electric Generating Facility
RMP	Resource Management Plan; Risk Management Plan
RMPP	California Risk Management and Prevention Plan
RO	reverse osmosis
ROD	Record of Decision
ROE	Right of Entry
ROW	right-of-way

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RPS	Renewables Portfolio Standard
RSEP	Rice Solar Energy Project
RUSLE2	Revised Universal Soil Loss Equation
RWQCB	California Regional Water Quality Control Board
SA	Staff Assessment
SARA	Superfund Amendments and Reauthorization Act
SB	Senate Bill
SBCM	San Bernardino County Museum
SCAB	South Coast Air Basin
SCE	Southern California Edison Company
SCIC	South Coast Information Center
SDG&E	San Diego Gas & Electric Company
SE	State Endangered
SEZ	Solar Energy Zone
SF	solar field
SFINCS	solar field integrated control system
SH	superheating
SHPO	State Historic Preservation Office
SHRA	screening health risk assessment
SIL	significant impact level
SIP	State Implementation Plan
SLF	Sacred Lands File
SLM	sound level meters
SO <sub>2</sub>	sulfur dioxide
Solar PEIS	Solar Energy Programmatic Environmental Impact Statement
Sox	sulfur oxides
SP	State Protected
SPCC Plan	Spill Prevention Control and Countermeasures Plan
SPL	sound pressure level
SPPE	Small Power Plant Exemption
SPT	Solar Power Tower
sq. ft.	square feet
SMSG	solar receiver steam generator
SSC	Species of Special Concern
SST	station service transformer
ST	short-term; State Threatened
STAA	Vehicle Length Surface Transportation Assistance Act
STG	steam turbine generator
STR	Smith Travel Research
SVP	Society of Vertebrate Paleontologists
SWPPP	Storm Water Pollution Prevention Plan

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SWRCB	California State Water Resources Control Board
TAC	Toxic Air Contaminant
T-BACT	Toxics-Best Available Control Technology
TCGT	TransCanada Gas Transmission Company
TDS	total dissolved solids
TEWAC	Totally Enclosed Water to Air Cooled
TLMA	Riverside County Transportation & Land Management Agency
TNW	traditionally navigable waterway
tpy	tons per year
TQ	threshold quantity
TSDF	Treatment, Storage and Disposal Facility
TSP	Total Suspended Particulate
TVI	Television Interference
U.S.	United States
UAT	Unit Auxiliary Transformer
UCMP	University of California Museum of Paleontology
UL	Underwriters Laboratories
UP	Union Pacific Railroad
UPS	uninterruptible power supply
URS	URS Corporation Americas
USACE	United States Army Corps of Engineers
USBR	United States Bureau of Reclamation
USC	United States Code
USFS	United States Forest Service
USFWS	United States Fish and Wildlife Service
USGLO	United States Government Land Office
USGS	United States Geological Survey
UXO	Unexploded Ordnance
V	volt
VF	Valley Fever
VOC	volatile organic compound
VR	Visual Route
VRM	Visual Resource Management
VSOI	visual sphere of influence
WAPA	Western Area Power Administration
WDR	Waste Discharge Requirement
WEAP	Worker Environmental Awareness Program
WEG	wind erodibility group
WEI	wind erodibility index
WFRHBA	Wild and Free-Roaming Horses and Burros Act
WHMA	Wildlife Habitat Management Area
WL	Watch List

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WP	WorleyParsons
WSAC	wet-surface air cooler
WSC	Waters of the State of California
WUS	Waters of the United States
WWT	Wastewater Treatment
WWTP	Wastewater Treatment Plant
WWTS	waste water treatment system
XLPE	cross-linked polyethylene
ZOI	Zone of Influence
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
$\mu\text{V}/\text{m}$	microvolts per meter