



# Diablo Canyon Power Plant Decommissioning Project

## Draft Environmental Impact Report

State Clearinghouse # 2021100559  
Development Plan/  
Coastal Development Permit/  
Conditional Use Permit  
# DRC2021-00092 (ED21-174)

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## List of Acronyms and Abbreviations

°C	degrees Celsius
°F	degrees Fahrenheit
µg/m <sup>3</sup>	micrograms per cubic meter
µm	micrometer
<b>A</b>	
AAQS	Ambient Air Quality Standards
AB	Assembly Bill
AC	Applicant Commitment
ACM	asbestos containing materials
ACR	American Carbon Registry
ACS	American Community Survey
ADA	Americans with Disabilities Act
ADT	average daily trips
AE	Applied Earthworks
AEC	Alamitos Energy Center
AEC	Atomic Energy Commission
AF	acre-feet
AFLCIO	American Federation of Labor and Congress of Industrial Organizations
AFY	acre-feet per year
ALARA	as low as is reasonably achievable
AOCs	areas of concern
AP-42	USEPA Compilation of Air Emissions Factors
APCD	Air Pollution Control District
Applicant	Pacific Gas & Electric Company
APN	Assessor’s parcel number
AR5	Fifth Assessment Report
AREOR	Annual Radiological Environmental Operating Report
ASWS	Auxiliary Salt Water System
ATC	Authority to Construct
AVE	Areas of Visual Effect
<b>B</b>	
BACT	Best Available Control Technology
BCC	USFWS Bird of Conservation Concern
BERD	Built Environment Resource Directory
BLM	Bureau of Land Management
BMP	Best Management Practices
BOEM	Bureau of Ocean Energy Management
<b>C</b>	
CAAQS	California Ambient Air Quality Standards
CAL FIRE	California Department of Forestry and Fire Protection
CAL IPC	California Invasive Plant Council
CAMP	Construction Activity Management Plan
CAR	Climate Action Reserve
CARB	California Air Resources Board
CBCN	Coastal Band of the Chumash Nation
CCA	California Coastal Act
CCC	California Coastal Commission

CCH	Consortium of California Hebaria
CCIC	Central Coastal Information Center
CCR	California Code of Regulations
CCRWQCB	Central Coast Regional Water Quality Control Board
CCSMW	California Sediment Management Workgroup
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife
CDOC	California Department of Conservation
CDP	Coastal Development Permit
CDPH	California Department of Public Health
CDWR	California Department of Water Resources
CEC	California Energy Commission
CEMP	California Eelgrass Mitigation Policy
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CESA	California Endangered Species Act
CFC	chlorofluorocarbon
CFR	Code of Federal Regulations
CGP	Construction General Permit
CGS	California Geological Survey
CH <sub>4</sub>	methane
CHP	California Highway Patrol
CI	<i>Coccidioides immitis</i>
CIKR	critical infrastructure and key resources
CISF	consolidated interim storage facilities
CLSM	controlled low strength material
CLUP	Coastal Land Use Plan
CNDDDB	California Natural Diversity Database
CNEL	community noise equivalent level
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
COSE	Conservation and Open Space Element
CPS	coastal pelagic species
CPUC	California Public Utilities Commission
CRHR	California Register of Historical Resources
CRMDP	Cultural Resources Monitoring and Discovery Plan
CRPR	California Rare Plant Rank
CRPR 1A	California Rare Plant Rank, presumed extinct in California
CRPR 1B	California Rare Plant Rank, Rare or endangered in California and elsewhere
CRPR 2	California Rare Plant Rank, Rare or endangered in California, more common elsewhere
CRPR 3	California Rare Plant Rank, More Information Needed
CRPR 4	California Rare Plant Rank, Limited Distribution (Watch List)
CRS	Cultural Resources Specialist

CS	Service Commercial
CSLC	California State Lands Commission
CUP	Conditional Use Permit
CWA	Clean Water Act
CWS	cooling water system
CY	cubic yards
CZLUO	Coastal Zone Land Use Ordinance
CZMA	Coastal Zone Management Act
<b>D</b>	
D&D	Decontamination and dismantlement
DAMP	Decommissioning Activity Management Plan
dB	Decibel
dB re 1 $\mu$ Pa	Decibels referenced to 1 micropascal
dba	A-weighted decibels
DBA	Design Basis Accident
DBH	diameter at breast height
DCA	Discharge Cove Area
DCDEP	Diablo Canyon Decommissioning Engagement Panel
DCFD	Diablo Canyon Fire Department
DCGL	Derived Concentration Guideline Level
DCPP	Diablo Canyon Power Plant
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DESAL	Desalination Executable Solution and Logistics
DIR	Department of Industrial Relations
DOC	California Department of Conservation
DOD	US Department of Defense
DOE	US Department of Energy
DOT	Department of Transportation
DP	Development Plan
DPM	Diesel Particulate Matter
DPS	distinct population segment
DQO	Data Quality Objective
DTSC	Department of Toxic Substances Control
<b>E</b>	
EAP	Energy Action Plan
EFH	Essential Fish Habitat
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
ENSO	El Niño-Southern Oscillation
EO	Executive Order
EOP	Emergency Operations Plan
EPA	Environmental Protection Agency
EPRI	Edison Power Research Institute
ESA	Endangered Species Act
ESHA	Environmentally Sensitive Habitat Area
ESRI	Environmental Systems Research Institute
ESS	Energy Storage System

	ESU	evolutionarily significant units
<b>F</b>	FC	Federal Candidate
	FE	Federally Endangered
	FEMA	Federal Emergency Management Agency
	FESA	Federal Endangered Species Act
	FGC	California Fish and Game Code
	FHSZ	Fire Hazard Severity Zone
	FHWA	Federal Highway Administration
	FIRM	Flood Insurance Rate Maps
	FLEX	Flexible and Diverse Coping Strategy
	FMC	Fishery Management Councils
	FMP	Fishery Management Plans
	FODCL	Friends of the Diablo Canyon Lands
	FP	State Fully Protected
	FRAs	Federal Responsibility Areas
	FSAR	Final Safety Analysis Report
	FSR	Final Site Restoration
	FSS	Final Status Surveys
	FSSR	Final Status Survey Report
	FT	Federally Threatened
FTA	Federal Transit Authority	
FY	fiscal year	
<b>G</b>	GEIS	Generic Environmental Impact Statement
	GHG	greenhouse gas
	GIS	geographic information system
	GPM	gallons per minute
	GTCC	Greater Than Class C
	GWP	global warming potential
	GWTS	groundwater collection and treatment system
<b>H</b>	H-3	tritium
	H&SC	Health and Safety Code
	HAPC	Habitat of Particular Concern
	HEPA	high-efficiency particulate air
	HFCs	hydrofluorocarbons
	HLW	high-level radioactive waste
	HMS	Highly Migratory Species
	HMR	Hazardous Materials Regulations
	HRA	Health Risk Assessment
	HSA	Historical Site Assessment
	HSMs	horizontal storage modules
HWTS	hazardous waste tracking system	
<b>I</b>	ICCTA	Interstate Commerce Commission Termination Act
	ICRP	International Commission on Radiation Protection
	IFMP	Irradiated Fuel Management Plan
	IGP	Industrial General Permit
	IMO	International Maritime Organization

	IPAC	Information for Planning and Conservation Program
	IPCC	Intergovernmental Panel on Climate Change
	IRP	Integrated Resource Plan
	IRWM	Integrated Regional Water Management
	ISFSI	Independent Spent Fuel Storage Installation
<b>J</b>	JPA	Joint Proposal Agreement
<b>K</b>	KEEP	Kern Environmental Education Program
	kV	kilovolts
<b>L</b>	L <sub>10</sub> , L <sub>50</sub> , L <sub>90</sub>	A-weighted noise levels that are exceeded 10, 50, and 90 percent of the time, respectively, during the measurement period
	LAES	liquid air energy storage
	LAMP	Local Agency Management Program
	LARW	Low Activity Radioactive Waste
	LCP	Local Coastal Program
	L <sub>dn</sub>	day/night noise level
	Leq	Equivalent noise level
	LI	Light Industrial
	LID	Low Impact Development
	LLD	lower limit of detection
	LLRW	low-level radioactive waste
	L <sub>n</sub>	noise level exceeded during “n” percent of the measurement period
	LOS	level of service
	LRA	License Renewal Application
	LRAs	Local Responsibility Areas
	LRW	liquid radioactive waste
	LTP	License Termination Plan
	LTR	License Termination Rule
	LUE	Land Use Element
	LUO	Land Use Ordinance
	LUST	leaking underground storage tank
<b>M</b>	M	moment magnitude scale
	MARSAME	Multi-Agency Radiation Survey and Assessment of Materials and Equipment
	MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
	MBTA	Migratory Bird Treaty Act
	MCL	maximum contaminant levels
	MCV	Manual of California Vegetation
	MDA	minimum detectable activity
	MDAQMD	Mojave Desert Air Quality Management District
	MEIR	Maximum Exposed Individual – Residential
	MEIW	Maximum Exposed Individual – Worker
	MGD	Million gallons per day
	mg/L	Milligrams per liter
	MHHW	mean higher high water
	MLD	most likely descendent
	MLLW	mean lower low water
	MM	mitigation measure

MMPA	Marine Mammal Protection Act of 1972
MMRP	Mitigation Monitoring and Reporting
MMT	million metric tons
MOU	Memorandum of Understanding
MPA	Marine Protected Area
MPC-32	multi-purpose canister capable of holding 32 fuel assemblies
MPO	Metropolitan Planning Organization
MRR	Mandatory Reporting Rule
MSA	Management Act of 1976
MSL	mean sea level
MW	megawatts
MWO	marine wildlife observers
<b>N</b>	
N/A	not applicable
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NAS	native aquatic species
NAVD88	North American Vertical Datum of 1988
NBMP	Nesting Bird Management Plan
NCRP	National Council on Radiation Protection and Measurements
NCTC	Northern Chumash Tribal Council
NDCTP	Nuclear Decommissioning Cost Triennial Proceeding
NEBA	Net Environmental Benefit Analysis
NEI	Nuclear Energy Institute
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollution
NF3	nitrogen trifluoride
NFPA	National Fire Protection Agency
NHMLA	History Museum of Los Angeles County
NIPP	National Infrastructure Protection Plan
NMFS	National Marine Fisheries Service
NO <sub>2</sub>	nitrogen dioxide
NOA	naturally occurring asbestos
NOAA	National Oceanic and Atmospheric Administration
NOCA	North Owner Controlled Area
NOI	Notice of Intent
NOP	Notice of Preparation
NOT	Notice of Termination
NOx	oxides of nitrogen
NPA	North Protected Area
NPDES	National Pollutant Discharge Elimination System
NRC	US Nuclear Regulatory Commission
NRCS	National Resource Conservation Service
NREL	National Renewable Energy Laboratory
NRHP	National Register of Historic Places
NSA	North Site Area
NUREG	US Nuclear Regulatory Commission Regulation
NWPA	Nuclear Waste Policy Act



<b>O</b>	OCA	Owner-Controlled Area
	OEHHA	Office of Environmental Health Hazard Assessment
	OES	Office of Emergency Services
	OHWM	ordinary high-water mark
	OPC	Ocean Protection Council
	OPR	Office of Planning and Research
	OSGSF	Old Steam Generator Storage Facility
	OSHA	Occupational Safety and Health Administration
	OSPR	Office of Spill Prevention and Response
	OSRP	Oil Spill Response Plan
	OTC	once-through cooling
	OWTS	Onsite Wastewater Treatment Systems
<b>P</b>	PA	protected area
	PB	lead (element)
	PBA	Power Block Area
	PBR	Pismo Beach Railyard
	PCBs	Polychlorinated biphenyls
	PCG	Pacific Coast Groundfish
	pCi/liter	picocuries per liter
	PCS	Pacific Coast Salmon
	PDO	Pacific Decadal Oscillation
	PERP	Portable Equipment Registration Program
	PFCs	perfluorocarbons
	PFMC	Pacific Fishery Management Council
	PG&E	Pacific Gas & Electric Company
	PGAs	peak ground accelerations
	PIER	Paleontological Inventory and Evaluation Report
	PM	particulate matter
	PM10	course particulate matter that is 10 microns ( $\mu\text{m}$ ) in diameter or smaller
	PM2.5	fine particulate matter that is less than 2.5 microns ( $\mu\text{m}$ ) in diameter
	PP	pipe pile
	PPV	peak particle velocity
	PRC	Public Resources Code
	PRDs	Permit Registration Documents
	Proposed Project	Applicant's proposed scope of work evaluated in the EIR
	PSDAR	Post Shutdown Decommissioning Activities Report
	PSHA	Probabilistic Seismic Hazard Assessment
	PTO	Permit to Operate
	PTS	permanent threshold shift
<b>Q</b>	QA	quality assurance
<b>R</b>	RCA	Radiological Control Area
	RCNM	Roadway Construction Noise Model
	RCPs	Reactor Coolant Pumps
	RCRA	Resource Conservation and Recovery Act
	REACH	Regional Economic Action Coalition

REMP	Radiological Environmental Monitoring Program
RHA	Rivers and Harbors Act
RMS	root-mean-square
ROC	reactive organic compounds
ROG	reactive organic gasses
RPS	Renewables Portfolio Standard
RPV	reactor pressure vessel
RTA	Regional Transit Authority
RTK	real-time accuracy
RTP	Regional Transportation Plan
RV	recreational vehicle
RVI	reactor vessel internals
RWQCB	Regional Water Quality Control Board
<b>S</b>	
SAFSTOR	safe, stable storage condition delaying decommissioning up to 60 years
SB	Senate Bill
SBC	Santa Barbara County Conservation
SBCAG	Santa Barbara County Association of Government
SBCAPCD	Santa Barbara County Air Pollution Control District
SBCFD	Santa Barbara County Fire Department
SC	state candidate
SCAQMD	South Coast Air Quality Management District
SCCAT	Southern California Caulerpa Action Team
SCCC DPS	South-Central California Coast Distinct Population
SCEDC	Southern California Earthquake Data Center
SCS	Site Characterization Study
SEAD	Security Executive Agent Directive
SF <sub>6</sub>	sulfur hexafluoride
SFP	spent fuel pool
SGMA	Sustainable Groundwater Management Act
SGRP	Steam Generator Replacement Project
SJVAPCD	San Joaquin Valley Air Pollution Control District
SLOAPCD	San Luis Obispo Air Pollution Control District
SLOCAPCD	San Luis Obispo County Air Pollution Control District
SLOCOG	San Luis Obispo Council of Governments
SLR	sea-level rise
SMAT	Santa Maria Area Transit
SMCA	State Marine Conservation Area
SMR	State Marine Reserve
SMRMA	State Marine Recreational Management Area
SMVR	Santa Maria Valley Railyard Facility
SMVR-SB	Santa Maria Valley Railyard Facility – Santa Barbara (Betteravia Industrial Park)
SMVR-SM	Santa Maria Valley Railyard Facility – Santa Maria (Osburn Yard)
SNF	spent nuclear fuel
SO <sub>2</sub>	sulfur dioxide
SO <sub>x</sub>	sulfur oxides
SOCA	South Owner Controlled Area

SONGS	San Onofre Nuclear Generating Station
SP	sheet pile
SPA	South Protected Area
SPCC	Spill, Prevention, Control, and Countermeasure
SPL	Sound Pressure Level
SRA	Sensitive Resource Area
SRA	State Responsibility Area
SSA	South Site Area
SSC	species of special concern
SSCs	structures, systems, and components
SSDCE	Site-Specific Decommissioning Cost Estimate
SSLOCSD	South San Luis Obispo Community Services District
ST	state threatened
SUV	sport utility vehicle
SVP	Society of Vertebrate Paleontology
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
SWRO	Seawater Reverse Osmosis
SYBCI	Santa Ynez Band of Chumash Indians
<b>T</b>	
TACs	toxic air contaminants
TCRs	Tribal Cultural Resources
TEDE	total effective dose equivalent
TMP	Traffic Management Plan
TMP	Transportation Management Plan
TSDF	treatment storage & disposal
TSP	tubular steel pole
TSSs	Traffic Separation Schemes
TTS	temporary threshold shift
<b>U</b>	
UCLA	University of California Los Angeles
UCMP	University of California Museum of Paleontology
UPRR	Union Pacific Railroad
URL	Urban Reserve Line
US	United States
US-101	United States Highway 101
USACE	United States Army Corps of Engineers
USC	United States Code
USDA	United States Department of Agriculture
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGCRP	United States Global Change Research Program
USGS	United States Geological Survey
UST	underground storage tank
UTM	Universal Transverse Mercator
<b>V</b>	
VCAPCD	Ventura County Air Pollution Control District
VCT	Vertical Cask Transporter

	VMT	Vehicle Miles Traveled
	VOC	volatile organic compound
<b>W</b>	WD	wheel drive
	WDID	Waste Discharge Identification Number
	WDL	Water Data Library
	WEA	Wind Energy Area
	WEAP	Worker Environmental Awareness Program
	WHAT	Waste Holding and Treatment
	WNSRT	White-Nose Syndrome Response Team
	WOCA	West Owner Controlled Area
<b>Y</b>	YTT	yak tityu tityu yak tilhini
<b>Z</b>	ZOI	Zone of Influence