

**Lancaster Energy Center  
Draft Environmental Impact  
Report**

Conditional Use Permit No. 14-10  
GP Amendment No. 14-02  
Zone Change No. 14-02

SCH: 2014071077



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## Acronyms and Abbreviations

AB	Assembly Bill
AC	Alternating Current
ACHP	Advisory Council on Historic Preservation
ADT	Average Daily Trips
AEP	Annual Exceedance Probability
ANSI	American National Standards Institute
APN	Assessor's Parcel Number
AQMP	Air Quality Management Plan
ARB	California Air Resources Board
ARC	Agency for Research on Cancer
ASTM	American Society for Testing and Materials
ATCM	Airborne Toxic Control Measure
AVAQMD	Antelope Valley Air Quality Management District
AVEK	Antelope Valley-East Kern Water Agency
BBCS	Bird and Bat Conservation Strategy
BCC	Birds of Conservation Concern
BGEPA	Bald and Golden Eagle Protection Act
BLM	Bureau of Land Management
BMP	Best Management Practices
BP	Before Present
C	Commercial
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAAQS	California Ambient Air Quality Standards
CAISO	California Independent System Operator
CalEEMod	California Emissions Estimator Model (version 2013.2.2)
Cal/EPA	California Environmental Protection Agency
CalFIRE	California Department of Forestry and Fire Protection
Cal OSHA	California Occupational Health and Safety Administration
Caltrans	California Department of Transportation
CARB	California Air Resources Board
CBC	California Building Code
CBSC	California Building Standards Code
CCAA	California Clean Air Act
CCC	California Coastal Commission

**Acronyms and Abbreviations**

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CCR	California Code of Regulations
CDC	California Department of Conservation
CDCP	Center for Disease Control and Prevention
CDFG	California Fish and Game
CDFW	California Department of Fish and Wildlife
CDPH	California Department of Public Health
CdTe	Cadmium telluride
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
CGC	California Government Code
CGS	California Geological Survey
CH <sub>4</sub>	methane
C <sub>2</sub> H <sub>3</sub> Cl	chloroethylene
CHRIS	California Historical Resources Information System
CHSC	California Health and Safety Code
CMP	Congestion Management Program
CNDDDB	California Natural Diversity Database
CNEL	Community Noise Equivalent Level
CNPPA	California Native Plant Protection ACT
CNPS	California Native Plant Society
CO	carbon monoxide
CO <sub>2</sub>	carbon dioxide
CO <sub>2</sub> e	carbon dioxide equivalents
CPUC	California Public Utilities Commission
CREC	Controlled Recognized Environmental Conditions
CRHR	California Register of Historic Resources
CRPR	California Rare Plant Rank
CRT	Cathode Ray Tube
CUP	Conditional Use Permit
CUPA	Certified Unified Program Agency
CWA	Clean Water Act
CWC	California Water Code
cy	cubic yards
dB	Decibel
dBA	A-Weighted Decibel
dBC	C-Weighted Decibel

DC	Direct Current
DHS	California Department of Health Services
DOT	United States Department of Transportation
DPM	diesel particulate matter
DPR	California Department of Parks and Recreation
DTSC	California Department of Toxic Substances Control
DWR	California Department of Water Resources
EDR	Environmental Data Resources
EIR	Environmental Impact Report
ELF	Extremely Low Frequency
EMF	Electric and Magnetic Fields
EMS	Emergency Medical Service
EO	Executive Order
EPA	United States Environmental Protection Agency
ESA	Endangered Species Act
ESSC	Earth Systems Southern California
FCC	Federal Communication Commission
FEMA	Federal Emergency Management Agency
FHWA	Federal Highway Administration
FIRM	Flood Insurance Rate Map
FMMP	Farmland Mapping and Monitoring Program
FR	Federal Register
GCP	General Construction Permit
GHG	Greenhouse Gases
GIS	Geographic Information Systems
GMP	Groundwater Management Plan
GPA	General Plan Amendment
GPS	Global Positioning System
GWP	global warming potential
GWR	Gross Vehicle Weight Rating
HAP	Hazardous Air Pollutants
HFC	hydrofluorocarbon
HI	Hazard Index
hp	horsepower
HRA	Health Risk Assessment
HREC	Historical Recognized Environmental Condition
H <sub>2</sub> S	hydrogen sulfide
HSG	Hydrological Soil Group

**Acronyms and Abbreviations**

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HUC	Hydrologic Unit Code
HWMP	Hazardous Waste Management Plan
Hz	hertz
I	Interstate
IBC	International Building Code
ICBO	International Conference of Building Officials
ICD	Implanted Cardioverter Defibrillator
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronic Engineers
IRWMP	Integrated Regional Water Management Plan
JD	Jurisdictional Determination
kHz	kilohertz
KOP	Key Observation Point
kV	kilovolts
kV/m	kilovolts per meter
kW	kilowatts
LACBC	Los Angeles County Building Code
LACFD	Los Angeles County Fire Department
LACMTA	Los Angeles County Metropolitan Transportation Authority
LACSD	Los Angeles County Sheriff's Department
LACTC	Los Angeles County Transportation Commission
LACWWD	Los Angeles County Waterworks Division
LADWP	Los Angeles Department of Water and Power
L <sub>dn</sub>	Day/Night Average Sound Level
LED	Light Emitting Diode
L <sub>eq</sub>	Equivalent Sound Level
LID	Low Impact Development
L <sub>max</sub>	Maximum Sound Level
L <sub>min</sub>	Minimum Sound Level
LOS	Level of Service
LRA	Local Responsibility Area
LSSA	Lake and Streambed Alteration Agreement
LWRP	Lancaster Wastewater Reclamation Plant
L <sub>xx</sub>	Percentile-Exceeded Sound Level
mA	milliampere
MBTA	Migratory Bird Treaty Act
MCLs	Maximum Contaminant Levels
MDAB	Mojave Desert Air Basin
MEI	Maximally Exposed Individual

mG	milligauss
MLD	Most Likely Descendant
MM	Mitigation Measure
MMI	Modified Mercalli Intensity
mph	miles per hour
MPO	Metropolitan Planning Organization
MRZ	Mineral Resource Zone
MS4	Municipal Separate Storm water Sewer System
msl	Mean Sea Level
MW	megawatt
NAAQS	National Ambient Air Quality Standards
NAD	North American Datum
NAHC	Native American Heritage Commission
NCCP	Natural Community Conservation Plan
NEPA	National Environmental Policy Act
NERC	North American Energy Reliability Corporation
NESC	National Electric Safety Code
NFIP	National Flood Insurance Program
NGO	Nongovernmental Organization
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
N <sub>2</sub> O	nitrous oxide
NO <sub>2</sub>	nitrogen dioxide
NOC	Notice of Completion
NOI	Notice of Intent
NOP	Notice of Preparation
NO <sub>x</sub>	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NPS	Non-Point Source Pollution
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NU	Non-Urban Residential
O <sub>3</sub>	ozone
OEHHA	California Office of Environmental Health Hazard Assessment
O&M	Operation and Maintenance
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Administration
Pb	lead

**Acronyms and Abbreviations**

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PFC	perfluorocarbon
PM <sub>x</sub>	Particulate matter
ppb	parts per billion
PPE	Personal Protective Equipment
ppm	Parts Per Million
PPV	Peak Particle Velocity
PRC	California Public Resources Code
PSD	Prevention of Significant Deterioration
PV	Photovoltaic
QA	Qualified Archaeologist
RCNM	Roadway Construction Noise Model
REC	Recognized Environmental Condition
REMELS	Reference Energy Mean Emission Levels
RMP	Risk Management Plan
ROG	reactive organic gases
ROW	Right of Way
RPS	Renewable Portfolio Standard
RR-2.5	Rural Residential, minimum lot size 2.5 acres
RTP	Regional Transportation Plan
RWD	Reports of Waste Discharge
RWQCB	Regional Water Quality Control Board
SA	Standards Association
SCADA	Supervisory Control and Data Acquisition
SCAG	Southern California Association of Governments
SCCIC	South Central Coastal Information Center
SCE	Southern California Edison
SCG	Southern California Gas Company
SCS	Sustainable Communities Strategy
SDG&E	San Diego Gas and Electric
SEA	Significant Ecological Area
SENL	Single Event Noise Levels
SF <sub>6</sub>	sulfur hexafluoride
SHPO	State Historic Preservation Office
SIP	State Implementation Plan
SMARA	Surface Mining and Reclamation Act of 1975
SO <sub>2</sub>	sulfur dioxide
SO <sub>4</sub>	sulfate
SOAR	Students On the Academic Rise
SP	Specific Plan

sPower	Sustainable Power Group LLC
SRA	State Responsibility Area
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminants
TCM	Transportation Control Method
TDM	Transportation Demand Management
TNM	Traffic Noise Model
tpd	tons per day
UR	Urban Residential
USACE	United States Army Corps of Engineers
USC	United States Code
USDA	United States Department of Agriculture
USFWS	United States Fish and Wildlife Service
USGS	United States Geologic Survey
UTM	Universal Transverse Mercator
UWMP	Urban Water Management Plan
V/C	Volume-Demand-to-Capacity Ratio
VOC	Volatile Organic Compound
vpl	vehicles per lane
WDR	Waste Discharge Requirements
WECC	Western Electricity Coordinating Council
WEG	Wind Erodibility Groups
ZC	Zone Change