

# Draft Program Environmental Impact Report 627

## John Wayne Airport General Aviation Improvement Program

SCH No. 2017031072

COUNTY OF ORANGE  
John Wayne Airport  
3160 Airway Avenue  
Costa Mesa, California 92626  
Contact: Lea Choum

September 2018



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*Prepared for:*

**COUNTY OF ORANGE  
John Wayne Airport  
3160 Airway Avenue  
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## APPENDICES

### Appendix

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G	Greenhouse Gas Technical Report
H	Noise Study Report
I	General Aviation Improvement Program Traffic Impact Analysis (April 2018)

# List of Acronyms

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## A

AB	Assembly Bill
ACCM	Asbestos Containing Construction Material
ACCRI	Aviation Climate Change Research Initiative
ACHP	Advisory Council on Historic Preservation
ACM	Asbestos-containing materials
ACRP	Airport Cooperative Research Board
ADAP	Airport Development Aid Program
ADD	Average Daily Departures
ADT	Average daily traffic
AEDT	Aviation Environmental Design Tool
AELUP	Airport Environs Land Use Plan
af	acre-feet
afy	acre-feet per year
AIA	Airport influence area
AIP	Acoustical Insulation Program
ALUC	Airport Land Use Commission
ANCA	Airport Noise and Capacity Act
ANMS	Airport Noise Monitoring System
ANSI	American National Standards Institute
APE	Area of Potential Effect
APEX	Aircraft Particle Emissions eXperiment
APS	Auxiliary power systems
APST	Aboveground Petroleum Storage Tank
APU	Auxiliary power units
AQMP	Air Quality Management Plan
ARFF	Airport Rescue and Fire Fighting
ASBS	Areas of Special Biological Significance
ASIG	Aircraft Service International Group
ASTM	American Society for Testing and Materials
ATC	Austin Transportation Consulting
ATDS	Airport Technical Design Standards
avgas	Aviation gasoline
AWG	Airport Working Group

## B

BAT	Best Available Technology Economically Achievable
BAU	Business-as-usual scenario
BCE	Before Common Era
BCT	Best Conventional Pollutant Control Technology
BEP	Business Emergency Plan
BIT	Biennial inspection of terminals
bls	below land surface
BMP	Best Management Practice

**C**

C	Celsius
CAA	Clean Air Act
CAAFI	Commercial Aviation Alternative Fuels Initiative
CAAQS	California Ambient Air Quality Standards
CalARP	California Accidental Release Prevention Program
CalEEMod	California Emissions Estimator Model
CalEPA	California Environmental Protection Agency
CALGreen	California Green Building Standards
Cal/OSHA	California Occupational Safety and Health Administration
Caltrans	California Department of Transportation
CAP	Climate Action Plan
CARB	California Air Resources Board
CBP	Customs and Border Protection
CC&R	Covenants, conditions, and restrictions
CCAA	California Clean Air Act
CCR	California Code of Regulations
CE	Common Era
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CH <sub>4</sub>	methane
CHP	California Highway Patrol
CHRIS	California Historical Resources Information System
CLEEN	Continuous Lower Energy, Emissions, and Noise
CMA	Competitive Market Area
CMA	Congestion Management Agency
CMP	Congestion Management Plan
CMSD	Costa Mesa Sanitary District
CNEL	Community Noise Equivalent Level
CNRA	California Natural Resources Agency
CO	Carbon monoxide
CO <sub>2</sub>	Carbon dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
COPC	Chemicals of Potential Concern
County	County of Orange
CRHR	California Register of Historic Resources
CSLB	Contractors State License Board
CTR	California Toxics Rule
CUP	Central utility plant
CUPA	Certified Unified Program Agency
CWA	Clean Water Act

**D**

DAMP	Drainage Area Master Plan
dB	decibel
dBA	A-weighted decibel
DCV	Design Capture Volume



DNL	Day Night Noise Level
DTSC	California Department of Toxic Substances Control
DWR	Department of Water Resources
<b>E</b>	
EDMS	Emissions Dispersion and Modeling System
EIR	Environmental Impact Report
EIR 232	1981 JWA Master Plan Environmental Impact Report
EO	Executive Order
EPA	U.S. Environmental Protection Agency
ERA	Exceedance Response Action
ESA	Environmentally Sensitive Area
ESA	Environmental Site Assessment
ESCP	Erosion and Sediment Control Plan
ESL	Environmental screening levels
<b>F</b>	
FAA	Federal Aviation Administration
FAR	Federal Aviation Regulation
FBO	Fixed Base Operator
FICAN	Federal Interagency Committee on Aviation Noise
<b>G</b>	
GAIP	General Aviation Improvement Program
GAF	General Aviation Facility
GANO	General Aviation Noise Ordinance
GHG	Greenhouse gas
GIS	Geographic Information System
gpcd	gallons per capita per day
GSE	Ground Service Equipment
GWP	Global warming potential
<b>H</b>	
H <sub>2</sub> SO <sub>3</sub>	Sulfurous acid
H <sub>2</sub> SO <sub>4</sub>	Sulfuric acid
HAP	Hazardous air pollutants
HAZWOPER	Hazardous Waste Operations and Emergency Response
HC	hydrocarbons
HCA	Health Care Agency
HCP	Habitat Conservation Plan
HFC	hydrofluorocarbon
HMD	Hazardous Materials Disclosure
HMRRPIA	Hazardous Materials Release Response Plans and Inventory Act
HPDF	Historic Property Data File
HRA	Health Risk Assessment
HUD	U.S. Department of Housing and Urban Development
Hz	Hertz

**I**

I	Interstate
IBC	Irvine Business Complex
ICAO	International Civil Aviation Organization
ICU	Intersection capacity utilization
IS	Initial Study
ISO	International Organization for Standardization
ITAM	Irvine Transportation Analysis Model

**J**

JWA	John Wayne Airport, Orange County
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**L**

$L_{eq}$	Equivalent Noise Level
$L_{max}$	Maximum Noise Level
LACNHM	Los Angeles County Natural History Museum
LAFCO	Local Agency Formation Commission
LBP	Lead-based paint
LCP	Local Coastal Program
LID	Low impact development
LIP	Local Implementation Plan
LOS	Level of service
LST	Localized significance threshold
LUCP	Land Use Compatibility Program

**M**

MAP	million annual passengers
mgd	million gallons per day
MIP	Monitoring Implementation Plan
MLD	Most Likely Descendent
MM	Mitigation Measure
MMRP	Mitigation Monitoring and Reporting Program
MMT	million metric tons
MMTCO <sub>2e</sub>	million metric tons of carbon dioxide equivalent
MN	Minimization Measure
MND	Mitigated Negative Declaration
MPO	Metropolitan Planning Organization
MRO	Maintenance, repair, and overhaul
MS4	Municipal separate storm sewer system
MTCO <sub>2e</sub> /year	Metric tons of carbon dioxide equivalent per year
MWRF	Mesa Water Reliability Facility

**N**

N <sub>2</sub> O	Nitrous oxide
NAAQS	National Ambient Air Quality Standards
NAHC	Native American Heritage Commission
NAL	Numeric Action Level
NASA	National Aeronautics and Space Administration
NB	Northbound
NCCP	Natural Community Conservation Plan

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ND	Negative Declaration
NEC	No Exposure Certification
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NF <sub>3</sub>	nitrogen trifluoride
NHPA	National Historic Preservation Act
NIOSH	National Institute for Occupational Safety and Health
NIRS	Noise Integrated Routing System
NMT	Noise monitoring terminals
NO	Nitric oxide
NO <sub>2</sub>	Nitrogen dioxide
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOP	Notice of Preparation
NO <sub>x</sub>	Nitrogen oxide
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
<b>O</b>	
O&M	Operation and Maintenance
O <sub>3</sub>	ozone
OC	Orange County
OCFA	Orange County Fire Authority
OCFCD	Orange County Flood Control District
OCHCA	Orange County Environmental Health Care Agency
OCP	Orange County Projections
OCSD	Orange County Sanitation District
OCSD	Orange County Sherriff's Department
OCTA	Orange County Transportation Authority
OCWD	Orange County Water District
OFA	Object-free area
OPR	Office of Planning and Research
OSHA	Occupational Safety and Health Administration
<b>P</b>	
PAFI	Piston Aviation Fuels Initiative
PARTNER	Partnership for Air Transportation Noise and Emissions Reduction
PFC	perfluorocarbons
PM	Particulate matter
PM <sub>2.5</sub>	Fine particulate matter with a diameter of 2.5 microns or less
PM <sub>10</sub>	Respirable particulate matter with a diameter of 10 microns or less
ppm	parts per million
PRC	California Public Resources Code
<b>R</b>	
RCRA	Resource Conservation and Recovery Act
RELOOC	Regional Landfill Options for Orange County
RMP	Risk Management Plan
RMS	Remote Monitoring System
RON	Remain overnight

RPS	Renewable Portfolio Standard
RR	Regulatory requirements
RSL	Regional screening level
RTIP	Regional Transportation Improvement Program
RTP	Regional Transportation Plan
RTP/SCS	<i>2016–2040 Regional Transportation Plan/Sustainable Communities Strategy</i> (SCAG document)
RWQCB	Regional Water Quality Control Board
<b>S</b>	
SACC	Santa Ana Country Club
SAHSP	Santa Ana Heights Specific Plan
SB	Senate Bill
SB	Southbound
SC	Standard Condition
SCAG	Southern California Association of Governments
SCAQMD	South Coast Air Quality Management District
SCCIC	South Central Coastal Information Center
SCS	Sustainable Communities Strategy
SEL	Sound Exposure Level
SENEL	Single Event Noise Exposure Level
SF <sub>6</sub>	sulfur hexafluoride
SIC	Standard Industrial Classification
SIP	Sound Insulation Program
SIP	State Implementation Plan
SLF	Sacred Lands File
SMARTS	Storm Water Multiple Application and Report Tracking System
SO <sub>2</sub>	Sulfur dioxide
SO <sub>3</sub>	Sulfur trioxide
SoCAB	South Coast Air Basin
SO <sub>x</sub>	Sulfur oxides
SPCC	Spill Prevention, Control, and Countermeasure
SPON	Stop Polluting Our Newport
SR	State Route
SRA	Source receptor area
SSMP	Sewer System Management Plan
SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
<b>T</b>	
TAC	Toxic air contaminant
TCM	Transportation Control Measures
TCSA	Toxic Substances Control Act
TGD	Technical Guidance Document
TIA	Traffic Impact Analysis
TMDL	total maximum daily load
TPH	Total petroleum hydrocarbons

**U**

UK	United Kingdom
ULEV	Ultra Low Emission Vehicle
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	Underground Storage Tank
UWMP	Urban Water Management Plan

**V**

VALE	Voluntary Airport Low Emissions Program
VMT	Vehicle miles traveled
VOC	Volatile organic compounds

**W**

WDID	Waste Discharge Identification
WDR	Waste Discharge Requirements
WHMP	Wildlife Hazard Management Plan
WQMP	Water Quality Management Plan
WSA	Water Supply Assessment

**Z**

ZEV	Zero Emission Vehicle
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**Symbols**

°	degrees
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