Volume I - Final EIR Main Document

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Volume II - Technical Appendices

The technical appendices are voluminous, and are therefore provided in electronic format only on the CD attached to the inside front cover of the EIR notebook.

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Volume III - Response to Comments

Due to the volume of comments and associated responses, these documents have been provided in electronic format only on the CD attached to the inside cover of the EIR notebook. The response to comments CD contains following:

1. **How to Use the Response to Comments Files on the CD**
2. **Response to Comments Executive Summary**
3. **Governmental Agency Comment Letters and Responses**
4. **Applicant Comment Letters and Responses**
5. **Organizations and Schools Comment Letters and Responses**
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7. **Form Letters and Responses**

List of Abbreviations and Acronyms

°F	Degrees Farenheit
$\mu g/m^3$	Microgram Per Cubic Meter
AAR	American Association of Railroads
AB	Assembly Bill
ABS	Automatic Block Signal
ACM	Asbestos Containing Materials
ACHP	Advisory Council on Historic Preservation
AEP	Association of Environmental Professionals
AG	Agricultural
AGOF	Arroyo Grande Oil Field
AGP	Agricultural Policy
AIRFA	American Indian Religious Freedom Act
ANSI	American National Standards Institute
API	American Petroleum Institute
AR	Assembly Resolution
ARB	Air Resources Board
ARPA	Archaeological Resources Protection Act
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
ATCM	Air Toxics Control Measure
BACT	Best Available Control Technologies
BAU	Business As Usual
BETX	Benzene, Ethylbenzene, Toluene, and Xylenes
BLEVE	Boiling Liquid Expanding Vapor Explosion
BBL	Barrels (one barrel is 42 gallons)
BMP	Best Management Practices
BNSF	Burlington Northern Santa Fe Railroad
BOEMRE	Bureau of Ocean Energy Management, Regulation and Enforcement
BPD	Barrels Per Day
BPY	Barrels Per Year
BSA	Biological Study Area
CAAA	Clean Air Act Amendments
CadnaA	Computer Aided Noise Abatement
Cal Fire	California Department of Forestry and Fire Prevention
CalARP	California Accidental Release Prevention
CalEEMod	California Emissions Estimator Model
CalRecycle	Department of Resources Recycling and Recovery
CalTrans	California Department of Transportation
CAP	Clean Air Plan
CAPCOA	California Air Pollution Control Officers Association
CARB	California Air Resources Board
CAZ	Coastal Appealable Zone
CBC	California Building Code
CCA	California Coastal Act

CCAA	California Clean Air Act
CCBER	Cheadle Center for Biodiversity and Ecological Restoration
CCPS	Center for Chemical Process Safety
CCR	California Code of Regulations
CDC	California Department of Conservation
CDFA	California Department of Food and Agriculture
CDFW	California Department of Fish and Wildlife
CEC	California Energy Commission
CEMA	California Emergency Management Agency
CDMG	California Division of Mines and Geology
CDTSC	California Department of Toxic Substances Control
CDWR	California Department of Water Resources
CEQA	California Environmental Quality Act
CESA	California Endangered Species Act
CFC	California Fire Code
CFR	Code of Federal Regulations
CGS	California Geological Survey
CH_4	Methane
CHP	California Highway Patrol
CNDDB	California Natural Diversity Data Base
CNEL	Community Noise Equivalent Level
CNG	Compressed Natural Gas
CNPS	California Native Plant Society
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CO_{2e}	Carbon Dioxide Equivalent
COSE	Conservation and Open Space Element
CPUC	California Public Utilities Commission
CRCC	Coast Rail Coordinating Council
CRHR	California Register of Historical Resources
CSC	California Species of Special Concern
CSFM	California State Fire Marshal
CSRP	California State Rail Plan
CSWRCB	California State Water Resources Control Board
CTC	Centralized Traffic Control
CTP	California Transportation Plan
CUPA	Certified Unified Program Agencies
CWA	Clean Water Act
CWT	Hundred Weight
CZLUO	County's Coastal Zone Land Use Ordinance
dB	Decibel
dBA	A-Weighted Decibel
DBH	Diameters at Breast Height
DCS	Distributed Control System
DHRP	Dune Habitat Restoration Plan
DOC	Diesel Oxidation Catalyst

DOGGR	Division of Oil, Gas and Geothermal Resources
DOR	Division of Rail
DOT	United States Department of Transportation
DPF	Diesel Particulate Filters
DPM	Diesel Particulate Matter
DSR	Slow Order Delays
DTSC	Department of Toxic Substances Control
DWR	California Department of Water Resources
EIR	Environmental Impact Report
EPA	Environmental Protection Agency
ESA	Environmentally Sensitive Area
ESA	Endangered Species Act
ESHA	Environmentally Sensitive Habitat Area
EVA	Emergency Vehicle Access
EX	Energy or Extractive Resource Area
EX-1	Extractive Resource Area
FDC	Fire Department Connections
FEMA	Federal Emergency Management Agency
FESA	Federal Endangered Species Act
FH	Flood Hazard
FHWA	Federal Highway Administration
FMMP	Farmland Mapping and Monitoring Program
FRA	Federal Railroad Administration
FTA	Federal Transit Administration
FTI	Freight Train Interference
G/BHP HR	Grams Per Brake Horsepower Hour
GDP	Gross Domestic Product
GHG	Green House Gases
GPM	Gallon-Per-Minute
GPM/FT^2	Gallons Per Minute Per Square Feet
GWP	Global Warming Potential
H_2S	Hydrogen Sulfide
HARP	Hotspots Analysis and Reporting Program
HC	Hydrocarbons
HCD	Housing and Community Development
HCP	Habitat Conservation Plans
HHI	Health Hazard Index
HRA	Health Risk Analysis
HSWA	Hazardous and Solid Waste Amendments
HTUA	High Treat Urban Area
Hz	Hertz
IESNA	Illuminating Engineering Society of North America
IND	Industrial
ISO	International Organization for Standards
ITP	Incidental Take Permit

IWMA	Integrated Waste Management Authority
KM	Kilometer
KVA	Key Viewing Areas
kW	Kilowatts
kW/m^2	Kilowatts Per Square Meter
LAUS	Los Angeles Union Station
LCC	Land Capability Classification
LCP	Local Coastal Plan
Ldn	Day-Night Average Level
Leq	Equivalent Continuous Sound Level
Lmax	Maximum Instantaneous Noise Level
Lmin	Minimum Instantaneous Noise Level
LNG	Liquefied Natural Gas
LOS	Level of Service
LPG	Liquefied Petroleum Gas
LSHS	Local Safety Hazard Sites
LUE	Land Use Element
M/S	Meters Per Second
MBTA	Migratory Bird Treaty Act of 1918
MCE	Maximum Credible Earthquake
MCL	Maximum Contamination Levels
MM/S	Millimeters Per Second
MMCRP	Mitigation Monitoring, Compliance, and Reporting Program
MMTCE	Million Metric Tons of Carbon Equivalent
MOC	Management of Change
MOU	Memorandum of Understanding
MPE	Maximum Probable Earthquake
MPH	Miles Per Hour
MRS	Marine Research Specialists
MS4	Municipal Separate Storm Sewer System
MSE	Mechanically Stabilized Earth
MT/yr	Metric Tons Per Year
$MTCO_2E$	Metric Tons of Carbon Dioxide Equivalent
MW-hrs	Megawatt Hours
N_2O	Nitrous Oxide
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
NAHC	Native American Heritage Commission
NASS	National Agricultural Statistics Service
NCCP	Natural Community Conservation Plans
NEC	Northeast Corridor
NEPA	National Environmental Policy Act
NFPA	National Fire Protection Association
NGL	Natural Gas Liquids
NHPA	National Historic Preservation Act
NIST	National Institute of Standards and Technology

NO	Nitric Oxide
NO_X	Nitric Oxides
NO_2	Nitrogen Dioxide
NOA	Naturally Occurring Asbestos
NOAA	National Oceanic and Atmospheric Administration
NOP	Notice of Preparation
NMFS	National Marine Fisheries Service
NMMA	Nipomo Mesa Management Area
NPDES	National Pollutant Discharge Elimination System
NPS	National Park Service
NRCS	Natural Resources Conservation Service
NRHP	National Register of Historic Places
NTSB	National Transportation Safety Board
OCS	Outer Continental Shelf
ODSRVA	Oceano Dunes State Vehicular Recreation Area
OEHHA	Office of Environmental Health Hazard Assessment
OGP	Oil & Gas Producers
OHV	Off-Highway Vehicle
OPR	Office of Planning and Research
OPS	Office of Pipeline Safety
OS	Open Space
OSG1	Open Space Goal
OSHA	Occupational Safety and Health Administration
OSPR	Office of Spill Prevention and Response
OPRP	Oil Spill Response Plan
OTP	On-Time Performance
PCC	Portland Cement Concrete
PCE	Passenger Car Equivalent
PDC	Power Distribution Center
PG&E	Pacific Gas and Electric Company
PGA	Peak Ground Acceleration
PHMSA	Pipeline and Hazardous Materials Safety Administration
PLC	Programmable Logic Controller
PM	Particulate Matter
PM_{10}	Suspended Particulate Matter (aerodynamic diameter of ≤10 microns)
$PM_{2.5}$	Suspended Particulate Matter (aerodynamic diameter of ≤2.5 microns)
PMI	Point of Maximum Impact
PMI	Positive Material Identification
POLB	Port of Long Beach
POS	Port of Seattle
PPB	Parts Per Billion
PPM	Parts Per Million
PRC	Public Resources Code
PRIIA	Passenger Rail Investment and Improvement Act of 2008
PTC	Permit to Construct

PTO	Permit to Operate
PUC	Public Utilities Commission
QRA	Quantitative Risk Assessment
RCRA	Resource Conservation and Recovery Act
REL	Reference Exposure Level
RISA	Rail Safety Improvement Act of 2008
ROC	Reactive Organic Compounds
ROG	Reactive Organic Gases
ROW	Right of Way
RS	Residential Suburban
REC	Recreational
RMP	Risk Management Plan
RMP	Risk Management Programs
RMS	Root Mean Square
ROG	Reactive Organic Gases
ROSB	Railroad Operations and Safety Branch
RTC	Rail Traffic Controller
RTE	Freight Trains Are Routing
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
SB	Senate Bill
SCADA	Supervisory Control and Data Acquisition
SCAQMD	South Coast Air Quality Management District
SCRRA	Southern California Railroad Authority
SCS	Sustainable Community Strategy
SDNRR	San Diego Northern Railroad
SDP	Service Development Plan
SF_6	Sulfur Hexafluoride
SLF	Sacred Lands File
SLOCAPCD	San Luis Obispo County Air Pollution Control District
SLOC	San Luis Obispo County
SLOCOG	San Luis Obispo Council of Governments
SMARA	Surface Mining and Reclamation Act of 1975
SMPS	Santa Maria Pump Station
SMR	Santa Maria Refinery
SO_2	Sulfur Dioxide
SOHP	State Office of Historic Preservation
SP	Service Population
SPCCP	Spill Prevention, Control and Countermeasure Plan
SRA	Sensitive Resource Areas
SRV	Sensitive Riparian Vegetation
SSURGO	Soil Survey Geographic
STC	Sound Transmission Class
SVRA	State Vehicle Recreational Area
SWMP	Solid Waste Management Plan
SWMP	Stormwater Management Program

SWPPP	Storm Water Pollution Prevention Plan
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminants
TAN	Total Acid Number
TDS	Total Dissolved Solids
TH	Terrestrial Habitat
TNM	Traffic Noise Model
TPY	Tons Per Year
TRB	Transportation Research Board
UDEQ	Utah Department of Environmental Quality
UFC	Uniform Fire Code
ULE	Upper Level Event
UPRR	Union Pacific Railroad
USDA	United States Department of Agriculture
USDOT	United States Department of Transportation
USFWS	United States Fish and Wildlife Service
USGC	United States Gulf Coast
USGS	United States Geologic Service
V/C	Volume to Capacity
Vs_{30}	Average Shear Wave Velocity in the Upper 30 Meters
VOC	Volatile Organic Compounds
WDR	Waste Discharge Requirements
WET	Wetlands