

APPENDIX G4

Acronyms

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ACRONYMS AND ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AEGL	Acute Exposure Guidelines Levels
AER	Annual Emissions Report
AFPM	American Fuel and Petrochemical Manufacturers
AN	Application Number
ANS	Alaska North Slope
API	American Petroleum Institute
AQMD	Air Quality Management District
ASME	American Society of Mechanical Engineers
ASTM	American Society for Testing and Materials
AU	Alkylation Unit
BACT	Best Available Control Technology
bbbl	barrel
bbbl/day	barrels per day
bbbl/yr	barrels per year
BLEVE	Boiling Liquid Expanding Vapor Explosion
BOE	Barrels of equivalent
BP	BP West Coast Products LLC
BSVs	Bellows-Sealed Valves
BTEX	Benzene, toluene, ethylbenzene, and xylene
CalARP	California Accidental Release Prevention Program
CalEPA	California Environmental Protection Agency
CalOSHA	California Occupational Safety and Health Administration
CARB	California Air Resources Board
CCT	Carson Crude Terminal
CDU	Crude distillation unit
CEC	California Energy Commission
CEMS	Continuous Emissions Monitoring System
CEQA	California Environmental Quality Act
CO	Carbon monoxide
CO ₂	Carbon dioxide
CO _{2e}	Carbon dioxide equivalent-a standard unit for measuring carbon footprint
COP21	Conference of Parties
CPUC	California Public Utilities Commission
CRT	Tesoro Community Response Team
CSB	Chemical Safety and Hazard Investigation Board
dB	Decibel
dBA	A-weighted noise level measurement in decibels
DCU	Delayed Cracker Unit
DDU	Distillate desulfurization unit
DEIR	Draft Environmental Impact Report

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ABBREVIATION	DESCRIPTION
DEIS	Draft Environmental Impact Statement
DIAL	Differential Absorption LIDAR
DOT	U.S. Department of Transportation
DPM	Diesel PM
DTSC	California Environmental Protection Agency, Department of Toxic Substances Control
EA	Environmental Assessment
EFSEC	Energy Facility Site Evaluation Council
EIA	Energy Information Administration
EIR	Environmental Impact Report
EIS	Environmental Impact Statement
EJAG	Environmental Justice Advisory Group
EPA	Environmental Protection Agency
ERPGs	Emergency Response Planning Guidelines
ERC	Emission reduction credit
ESLs	Environmental Screening Levels
FCCU	Fluid Catalytic Cracking Unit
FEIR	Final Environmental Impact Report
FLIR	Forward Looking Infrared camera
FRA	Federal Railroad Administration
GHT	Gasoline Hydrotreater
GHG	Greenhouse gas emissions
H ₂ S	Hydrogen sulfide
HCN	Hydrogen cyanide
HCU	Hydrocracker Unit
HCU (C)	Carson Hydrocracker Unit
HCU (W)	Wilmington Hydrocracker Unit
hr/day	hours per day
HRA	Health Risk Assessment
HTHA	High-temperature hydrogen attack
HTU	Hydrotreater Unit
HVN	Heavy Vacuum Naphtha
IR	Infrared
LARIC	Los Angeles Refinery Integration and Compliance
lb/day	pounds per day
lb/yr	pounds per year
LDAR	Leak detection and repair
LFL	Lower flammable limit
LHU	Light Hydrotreating Unit
LPG	Liquefied Petroleum Gas
LST	Localized Significance Threshold
LVN	Light Vacuum Naphtha
MACT	Maximum Achievable Control Technology
MATES	Multiple Air Toxic Exposure Study

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ABBREVIATION	DESCRIPTION
mmBtu/hr	Million British Thermal Units per hour
MOC	Management of change
MOTEMS	California State Lands Commission Marine Oil Terminal Engineering and Maintenance Standards
mph	Miles per hour
MSDS	Material Safety Data Sheet
NAAQS	National Ambient Air Quality Standards
NEPA	National Environmental Policy Act
NHDS	Naphtha Hydrodesulfurization
NHT	Naphtha Hydrotreater
NOP/IS	Notice of Preparation/Initial Study
NOPV/PCO	Notice of Probable Violation and Proposed Compliance Order
NOV	Notice of Violation
NO _x	Nitrogen Oxide
NO ₂	Nitrogen Dioxide
NPDES	National Pollutant Discharge Elimination System
NSPS	New Source Performance Standards
NSR	New Source Review
N ₂ O	Nitrous Oxide
OEHHA	Office of Environmental Health Hazard Assessment
OPEC	Organization of Petroleum Exporting Countries
OSHA	Occupational Safety and Health Administration
PADD	Petroleum Administration for Defense District
PDI	Pollution disparity impact
PELs	Permissible Exposure Limits
PHA	Process Hazard Analysis
PHMSA	Pipeline and Hazardous Material Safety Administration
PM	Particulate Matter
PM _{2.5}	Particulate matter less than 2.5 microns equivalent aerodynamic diameter
PM ₁₀	Particulate matter less than 10 microns equivalent aerodynamic diameter
POLB	Port of Long Beach
ppb	Parts per billion
ppm	Parts per million
ppmv	Parts per million by volume
PQV	Program Quality Verifications
PRD	Pressure relief devices
PRR	Public records request
PRV	Pressure relief valves
psia	Pounds per square inch absolute
PSM	Process Safety Management
PSSR	Pre-Startup Safety Review

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ABBREVIATION	DESCRIPTION
PSTU	Propane Sales Treating Unit
PSV	Pressure safety valve
PTE	Potential to emit
Rancho LPG	Rancho LPG Holdings LLC
RECLAIM	Regional Clean Air Incentives Market
Refinery	Tesoro Los Angeles Refinery
RELS	Reference exposure levels
RMP	Risk Management Plan
ROG	Reactive organic acid
RTC	RECLAIM trading credit
RVP	Reid Vapor Pressure
RWQCB	Regional Water Quality Control Board
SARP	Sulfuric Acid Regeneration Plant
SCAQMD	South Coast Air Quality Management District
scf	Standard cubic feet
SCIG	Southern California International Gateway
SDS	Safety Data Sheet
SEC	Securities and Exchange Commission
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
SO _x	Sulfur oxide
SO ₂	Sulfur dioxide
SPCC	Spill Prevention, Control and Countermeasure
SRP	Sulfur Recovery Plant
SSC	Startup, shutdown and commissioning
SSM	Startup, shutdown and malfunction
SWRCB	State Water Resources Control Board
TAC	Toxic Air Contaminant
TACs	Toxic Air Contaminants
TAN	Total acid number
Tesoro	Tesoro Refining & Marketing Company LLC
Tesoro Logistics	Tesoro Logistics Operations, LLC
TRB	Transportation Research Board
TVP	True vapor pressure
T2	Marine Terminal 2
ULCC	Ultra Large Crude Carrier
U.S. DOT	United States Department of Transportation
U.S. EIA	United States Energy Information Administration
U.S. EPA	United States Environmental Protection Agency
ug/m ³	Micrograms per cubic meter
Vancouver Energy Project	Vancouver Energy Distribution Terminal Facility
Vacresid	vacuum residue
VCE	Vapor cloud explosion
VGO	Vacuum Gas Oil
VLCC	Very large crude carrier

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ABBREVIATION	DESCRIPTION
VOC	Volatile organic compounds
VRU	Vapor recovery unit
WCS	Western Canadian Select