APPENDIX E
Project Description Detailed Elements
E.

PROJECT DESCRIPTION DETAILED ELEMENTS

E.1 Codes, Standards, and Specifications Governing Design and Construction

The Proposed Project and Reduced Project Alternative would be designed, constructed, and operated in accordance with the following codes, standards, and specifications applicable to industrial structures and marine terminals in southern California generally, and marine oil terminals, tank farms, and pipelines in particular.

- U.S. Department of Transportation (DOT): Title 49 CFR, Chapter I, DOT, Part 195 (Design, construction, maintenance, and operation of pipelines)
- State of California: Senate Bill (SB) 2040 (Hazardous materials security)
- California Department of Transportation: Standard Provisions; Seismic Design Criteria, Version 1.3 (February 2004)
- South Coast Air Quality Management District (SCAQMD): Rule 1302 (h) Best Available Control Technology (BACT), Petroleum Storage Tanks
- City of Los Angeles: Building Code, 2002 Ed. (on-shore buildings only)
- Los Angeles City Division 95: Marine Oil Terminals, Tank Vessels, and Barges Fire Code
- National Fire Protection Association: Standards 20 (Standard for the Installation of Stationary Pumps for Fire Protection), 24 (Installation of Private Fire Service Mains and Their Appurtenances), 30 (Flammable and Combustible Liquids), 70 (National Electrical Code, applicable sections), and 307 (Construction and Fire Protection of Marine Terminals, Piers and Wharfs)
• National Flood Insurance Program (NFIP) floodplain building requirements
  (40 CFR Sections 59 through 65).


• American Petroleum Institute (API) Recommended Practices (RP) and Standards
  o 2A-WSD for Planning, designing and constructing fixed offshore platforms (Dec 2000)
  o RP 500C Classification of areas for electrical installation of petroleum and gas pipeline transportation systems
  o RP 2003, Protection against ignitions arising out of static, lightning and stray currents
  o Standard 650, Welded Steel Tanks for Oil Storage
  o Standard 653, Tank inspection, repair, alteration, and reconstruction
  o Standard 1104, Welding Pipe Lines and Related Facilities


• Oil Companies International Marine Forum (OCIMF), International Chamber of Shipping (ICS) and International Association of Ports and Harbors (IAPH): International Safety Guide for Oil Tankers and Terminals (ISGOTT), 5th edition, 2006 (relevant sections)

• OCIMF: Mooring Equipment Guidelines; Fire Protection and Emergency Evacuation Guide

• Military Handbook (MIL-HDBK) Structural Engineering Sections
  o 1002/1, General Requirements (30 Nov. 87);
  o 1002/2A, Loads (15 Oct. 96)
  o 1002/3, Steel Structures (30 Sep. 86)
  o 1002/4, Concrete Structures (Sep.86); 1002/5, Timber Structures (30 Mar. 87)
  o 1025/1, Piers and Wharves (30 Oct. 87)

• Port International Navigation Association (PIANC): Guidelines for the Design of Fender Systems

• International Maritime Organization: International Ship and Port Facility Code

• American Concrete Institute: Building Code Requirements for Structural Concrete ACI 318

3.0 Modifications to the Draft SEIS/SEIR – Appendix E  Project Description Detailed Elements

- American Welding Society: Structural Welding Code - Steel, AWS D1.1;
  Structural Welding Code for Bridge Structures ANSI/AWS D1.5
- Steel Structures Painting Council (SSPC): Good Painting Practice (Vol. 1&2).

E.2 Marine Terminal Design and Operation
E.3 Tank Farm Design and Operation
E.4 Pipeline Design and Operation
E.5 Security
E.6 General Marine Oil Terminal Lease Conditions
E.7 References