

APPENDIX E

Project Description Detailed Elements



PROJECT DESCRIPTION DETAILED ELEMENTS

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

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

- 6 • Maritime Transportation Security Act of 2002 (46 Code of Federal
7 Regulations [CFR] 701 and 33 CFR 101-106)
- 8 • Comprehensive Environmental Response, Compensation, and Liability Act
9 of 1980 (40 CFR 300): National Oil and Hazardous Substances Pollution
10 Contingency Plan)
- 11 • U.S. Department of Transportation (DOT): Title 49 CFR, Chapter I, DOT,
12 Part 195 (Design, construction, maintenance, and operation of pipelines)
- 13 • California State Lands Commission: “Marine Oil Terminal Engineering and
14 Maintenance Standards,” (MOTEMS) Chapter 31F, Title 24, Part 2
15 California Code of Regulations (2004)
- 16 • State of California: Senate Bill (SB) 2040 (Hazardous materials
17 security)
- 18 • California Department of Transportation: Standard Provisions; Seismic
19 Design Criteria, Version 1.3 (February 2004)
- 20 • South Coast Air Quality Management District (SCAQMD): Rule 1302 (h)
21 Best Available Control Technology (BACT), Petroleum Storage Tanks
- 22 • City of Los Angeles: Building Code, 2002 Ed. (on-shore buildings only)
- 23 • Los Angeles City Division 95: Marine Oil Terminals, Tank Vessels, and
24 Barges Fire Code
- 25 • Port of Los Angeles: Code for Seismic Design, Upgrade and Repair of
26 Container Wharves (5/18/2004)
- 27 • National Fire Protection Association: Standards 20 (Standard for the
28 Installation of Stationary Pumps for Fire Protection), 24 (Installation of
29 Private Fire Service Mains and Their Appurtenances), 30 (Flammable and
30 Combustible Liquids), 70 (National Electrical Code, applicable sections), and
31 307 (Construction and Fire Protection of Marine Terminals, Piers and
32 Wharfs)

- 1 • [National Flood Insurance Program \(NFIP\) floodplain building requirements](#)
2 [\(40 CFR Sections 59 through 65\).](#)
- 3 • International Code Council: Uniform Building Code 1997
- 4 • American Petroleum Institute (API) Recommended Practices (RP) and
5 Standards
 - 6 ○ 2A-WSD for Planning, designing and constructing fixed offshore
7 platforms (Dec 2000)
 - 8 ○ RP 500C Classification of areas for electrical installation of
9 petroleum and gas pipeline transportation systems
 - 10 ○ RP 2003, Protection against ignitions arising out of static, lightning
11 and stray currents
 - 12 ○ Standard 650, Welded Steel Tanks for Oil Storage
 - 13 ○ Standard 653, Tank inspection, repair, alteration, and reconstruction
 - 14 ○ Standard 1104, Welding Pipe Lines and Related Facilities
- 15 • American Society of Mechanical Engineers (ASME)/American National
16 Standards Institute (ANSI): B31.4, “Liquid Transportation Systems for
17 Hydrocarbons, Liquid Petroleum Gas, Anhydrous Ammonia, and Alcohols,”
18 (use latest edition at time of design)
- 19 • Oil Companies International Marine Forum (OCIMF), International Chamber
20 of Shipping (ICS) and International Association of Ports and Harbors
21 (IAPH): International Safety Guide for Oil Tankers and Terminals
22 (ISGOTT), 5th edition, 2006 (relevant sections)
- 23 • OCIMF: Mooring Equipment Guidelines; Fire Protection and Emergency
24 Evacuation Guide
- 25 • Military Handbook (MIL-HDBK) Structural Engineering Sections
 - 26 ○ 1002/1, General Requirements (30 Nov. 87);
 - 27 ○ 1002/2A, Loads (15 Oct. 96)
 - 28 ○ 1002/3, Steel Structures (30 Sep. 86)
 - 29 ○ 1002/4, Concrete Structures (Sep.86); 1002/5, Timber Structures (30
30 Mar. 87)
 - 31 ○ 1025/1, Piers and Wharves (30 Oct. 87)
- 32 • Port International Navigation Association (PIANC): Guidelines for the
33 Design of Fender Systems
- 34 • International Maritime Organization: International Ship and Port Facility
35 Code
- 36 • American Concrete Institute: Building Code Requirements for Structural
37 Concrete ACI 318
- 38 • American Institute of Steel Construction (AISC): Manual of Steel
39 Construction (Load and Resistance Factor Design, and Allowable Stress
40 Design), 13th Edition, 2006

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