

APPENDIX B

*Codes of Practice and
Specifications used for the
Construction and Operation of the
Bulk Liquid Storage and Handling
Facility at Coega Zone 8*

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LIST OF LOCAL AND INTERNATIONAL CODES OF PRACTICE AND SPECIFICATIONS THAT WILL BE UTILISED (AS APPLICABLE) FOR THE DESIGN AND OPERATION OF THE BULK LIQUID STORAGE AND HANDLING FACILITY

1. Codes of Practice

ANSI B 1.20.1	Pipe Threads, General Purpose
ANSI B16.5	Steel Pipe Flanges, Flanged Valves and Fittings
ANSI B16.9	Factory-made wrought steel butt-welding fittings
ANSI B16.11	Forged fittings, socket welding and threaded
ANSI B16.36	Steel Orifice Flanges
ANSI B31.3	Chemical Plant and Petroleum Refinery Piping
ANSI B31.4	Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids
ANSI B36.10	Welded and seamless wrought steel pipe
ANSI B36.10	Welded and Seamless Wrought Steel Pipe
API 650	Construction of atmospheric steel tanks
API Std 5L	Specification for Line pipe
API RP 550	Installation for refinery instruments and control systems
API 598	Valve Inspection and testing
API 600	Steel Gate Valves – Flanged and Butt welding ends
API 602	Compact carbon steel gate valves
API 607	Specification for fire test of valves
API 1104	Welding of Pipelines & related facilities
ASME BPVC Section VIII Division 1,	Boiler and pressure vessel code – Section VIII: Rules for construction of pressure vessels – Division 1: Pressure vessels
ASTM	American Society for Testing and Materials
ASME Sec V	Non-Destructive Examination
ASME Sec IX	Welding and Brazing Qualifications
AWWA C203	Specification for Coal-tar enamel coating
BS 729	Galvanizing
BS 1868	Steel check valves flanged, butt welding ends for Petrochemical and allied Industries
BS6349 Part 2	Maritime structures, design of quay walls, jetties and dolphins
BS6349 Part 4	Maritime structures, Code of Practise for design of fenders and moorings
BS 5146	Inspection and test of steel valves for the Petroleum, Petrochemical and allied Industries
BS 5351	Steel ball valve for the Petroleum, Petrochemical and Allied Industries
BS 5352	Steel gate, globe and check valves 50 mm and Smaller for Petroleum, Petrochemical & Allied Industries
NFPA 10	Standard for the Portable Fire Extinguishers
NFPA 11	Standard for Low-, Medium-, and High-Expansion Foam
NFPA 13	Standard for the Installation of Sprinkler systems
NFPA 15	Standard for Water spray fixed system for Fire Protection
NFPA 16	Standard for the Installation of Foam-Water Sprinkler and Foam-Water Spray Systems
NFPA 16	Dry Chemical Extinguishing System
NFPA 24	Private Service Mains and Their Appurtenances
NFPA 30	Flammable & Combustible Liquid Code

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NFPA 33	Spray Application Using Flammable and Combustible Materials
NFPA 58	Liquefied Petroleum Gas Code
NFPA 780	Lightning Protection systems
SS 055900	Pictorial surface preparation standard for painting steel surfaces
SSPC SP 5	White metal blast
ISO 9000	Quality systems – Model for quality assurance in Design/development, Production, Installation and Servicing
ISA A 18.1/ANSI	Specification and guide for the use of general-purpose annunciators.
IEC 801 Part 2	Electromagnetic compatibility for industrial process
IEC 801 Part 3	measurements and control equipment
IEC 801 Part 4	
SANS/IEC 60079	Code of practice for selection, installation and maintenance of electrical apparatus for use in potentially explosive atmospheres.
IEC 73	Coding of indicating devices and actuators by colours and supplementary means.
ISA S5.1	Instrument symbols and identification
ISO 3511	Process measurement and control function and Instrumentation – symbolic representation
IEC 751	Industrial Platinum resistance thermometer sensors
SANS/EN 60529 (IEC 529)	Specification for degrees of Protection provides by enclosures.
ISO 5167	Measurement of flow
ISO 5168	Measurement of fluid flow estimation uncertainty of flow Rate measurement
ISO 261	General purpose metric threads
SANS 347	Categorization and conformity assessment criteria for all pressure equipment
SANS 1535	Glass-reinforced polyester-coated steel tanks for the underground storage of hydrocarbons and oxygenated solvents and intended for burial horizontally.
SANS 10044	Welding
SANS 10064	The preparation of steel surfaces for coating
SANS 10087	The handling, storage, distribution and maintenance of liquefied petroleum gas in domestic, commercial, and industrial installations – Parts 1 to 10
SANS 10089	The Petroleum Industry – Parts 1, 2 & 3
SANS 10129	Plastic tape wrapping of steel pipelines
SANS 10142	The Wiring of Premises
SANS 10400	The application of the National Building Regulations
SANS 1200	Standardised Specifications for Civil Engineering Construction
SANS 10086-1	Installation, inspection and maintenance of equipment used in explosive atmospheres
SANS 10108	The Classification of Hazardous Locations and the selected of Electrical Apparatus for the use in such locations.
SANS 10313	The protection of structures against lightning.

2. Oiltanking Specifications

Oiltanking	Building Specifications – Parts 1 to 20
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