## (24 March 2017 - to date)

## **OCCUPATIONAL HEALTH AND SAFETY ACT 85 OF 1993**

(Gazette No. 14918, Notice No. 1158, dated 2 July 1993. Commencement date: 1 January 1994, except section 1(3)(b): to be proclaimed)

## INCORPORATION OF HEALTH AND SAFETY STANDARDS INTO THE PRESSURE EQUIPMENT REGULATIONS, 2009

Government Notice R262 in Government Gazette 40713 dated 24 March 2017. Commencement date: 24 March 2017.

(Editorial note: Also see Government Notice R79 dated 3 February 2012)

I, Mr Tibor Szana, appointed as the chief inspector in terms of section 27(1) of the said Act, and by virtue of the powers delegated to me by the Minister of Labour in terms of section 42(1) of the Act, after consultation with the Advisory Council for Occupational Health and Safety, hereby, under section 44 of the Occupational Health and Safety (Act No. 85 of 1993), as amended, amend the schedule in the Pressure Equipment Regulations, 2009, by replacing the current schedule with the new schedule as gazetted

(Signed) Tibor Szana Chief Inspector

## Schedule

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American standards								
ASME Section I	Rules for construction of power boilers							
ASME Section III	Rules for construction of nuclear facility components (divisions 1, 2 and 3)							
ASME Section IV	Rules for construction of heating boilers							
ASME Section VI	Recommended rules for the care and operation of heating boilers							
ASME Section VII	Recommended guidelines for the care of power boilers							
ASME Section VIII	Rules for construction of pressure vessels (divisions 1, 2 and 3)							
ASME Section X	Fibre-reinforced plastic pressure vessels							
ASME Section XI	Rules for in-service inspection of nuclear power plant components							
	ASME Code for pressure piping:							
ASME B31	B31.1 - Power piping							
	B31.2 - Fuel gas piping							
	B31.3 - Process piping							
	B31.4 - Pipeline transportation systems for liquid hydrocarbons and other liquids							



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	B31.5 - Refrigeration piping and heat transfer components							
	B31.8 - Gas transmission and distribution piping systems							
	B31.8S - Managing system integrity of gas pipelines							
	B31.9 - Building services piping							
	B31.11 - Slurry transportation piping systems							
ASME RTP-1	Reinforced thermoset plastic corrosion resistant equipment							
ASME PCC-2	Repair of pressure equipment and piping							
ASME PCC-3	Inspection planning using risk-based methods							
ASME PVHO-1	Safety standard for pressure vessels for human occupancy							
ASTM D 2774	Standard practice for underground installation of thermoplastic pressure piping							
ASTM D 2996	Standard specification for filament-wound "fiberglass" pipe (glass-fibre-							
	reinforced thermosetting resin)							
ASTM D 3299	Standard specification for filament-wound glass-fiber-reinforced thermoset							
	resin corrosion-resistant tanks							
ASTM D 4097	Standard specification for contact-moulded glass-fiber-reinforced thermoset							
	resin corrosion-resistant tanks							
API	American Petroleum Institute. Standard specifications for pressure equipment							
	(as applicable)							
The Association of	Specifications for tank cars, M 1002							
American Railroads								
Section C, Part III								
ANSI/ISA 84.00.01	Functional safety - Safety instrumented systems for the process industry sector							
ANSI NB-23	National board inspection code							
ANSI Z223.1	National fuel gas code							
AWWA	American water works association.[sic] as applicable							
DOT 3T	Seamless steel cylinder with a minimum water capacity of 1000 pounds and a							
	minimum service pressure of 1800 psig.							
DOT 4L	Welded insulated cylinders.							
TEMA rules	Tubular exchanger manufacturers association, Inc.							
UL 1316	Standard for safety for glass-fiber-reinforced plastic underground storage tanks							
	for petroleum products, alcohols and alcohol-gasoline mixtures							
	Australian standards							
AS 2634	Chemical plant equipment made from glass-fibre reinforced plastics (GRP)							
	based on thermosetting resins							
British standards								
BS 1113	Design and manufacture of water-tube steam generating plant (including super							
	heaters, reheaters and steel tube economizers)							
BS 4994	Specification of the design and construction of vessels and tanks in reinforced							
	plastics							
BS 5169	Fusion welded steel air receivers							



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BS 6464	Specification for reinforced plastics pipes, fittings and joints for process plants							
BS 7159	Code of practice for design and construction of glass-reinforced plastics (GRP)							
	piping systems for individual plants or sites							
PD 5500	Specification for unfired fusion welded pressure vessels							
	European standards							
2010/35/EU	Council Directive 2010/35/EU 16 June 2010 on transportable pressure							
	equipment							
EN 286-1	Simple unfired pressure vessels designed to contain air or nitrogen - Part 1:							
	Pressure vessels for general purposes							
EN 303-1	Heating Boilers - Part 1: Heating boilers with forced draught burners							
	Terminology, general requirements, testing and marking							
EN 303-2	Heating Boilers - Part 2: Heating boilers with forced draught burners – Special							
	requirements for boilers with atomizing oil burners							
EN 12493	LPG equipment and accessories - Welded steel tanks for liquefied petroleum							
	gas (LPG) - Road tankers design and manufacture							
EN 12952 (All parts)	Water-tube boilers and auxiliary installations							
EN 12953 (All parts)	Shell boilers							
EN 13121 (All parts)	GRP tanks and vessels for use above ground							
EN 13923	Filament-wound FRP pressure vessels - Materials, design, manufacturing a							
	testing							
EN 13445	Unfired pressure vessels							
EN 13458-1	Cryogenic vessels - Static vacuum insulated vessels - Part 1: Fundamental							
	requirements							
EN 13458-2	Cryogenic vessels - Static vacuum-insulated vessels - Part 2: Design,							
	fabrication, inspection and testing							
EN 13480 (All parts)	Piping							
EN 13530-1	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 1:							
	Fundamental requirements							
EN 13530-2	Cryogenic vessels - Large transportable vacuum insulated vessels - Part 2:							
	Design, fabrication, inspection and testing							
EN 14398-2	Cryogenic vessels - Large transportable non-vacuum insulated vessels - Part							
	2: Design, fabrication, inspection and testing							
EN 14025	Tanks for the transport of dangerous goods - Metallic pressure tanks - Design							
	and construction							
EN 14931	Pressure vessels for human occupancy (PVHO) - Multi-place pressure							
	chambers for hyperbaric therapy - Performance, safety requirements and							
	testing							
EN 14359	Gas Loaded accumulators for fluid power applications							
EN 50052	Cast aluminium alloy enclosures for gas-filled high-voltage switchgear and							
	control gear							



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CWA 15740	Risk-based inspection and maintenance procedures for industry (RIMAP)							
IEC 61508	Functional Safety of electrical/electronic/programmable electronic safety-							
	related systems - General requirements							
IEC 61511 (All parts)	Functional safety - Safety instrumented systems for the process industry sector							
NOTE In addition to the	above mentioned health and safety standards any standard which results in							
pressure equipment be	ing CE or Pi marked is deemed approved.							
	French standards							
RCC-M	Design and construction rules for mechanical components of PWR nuclear							
	standards							
CODAP	Code for the construction of unfired pressure vessels							
	German standards							
DIN 6647	Cylindrical beverage containers							
Technical Rules	Technical rules for steam boilers (TRD), Dampfkv and all sections							
AD-2000	Technical rules for pressure vessels (TRB), Druckbehvo and all sections							
DVS 2205	Design calculations for containers and apparatus made from thermoplastics							
DVS 2210-1	Plastic piping for industrial applications							
	ISO Standards							
ISO 4126 (All parts)	Safety devices for protection against excessive pressure							
ISO 14692 (All Parts)	Petroleum and natural gas industries - Glass-reinforced plastics (GRP) piping							
ISO 23251	Petroleum, petrochemical and natural gas industries - Pressure-relieving and							
	depressuring systems							
	South African standards							
SANS 347	SANS 347: Categorization and conformity assessment criteria for all pressure							
	equipment							
SANS 151	Fixed electric storage water heaters							
SANS 10228	Identification and classification of dangerous goods for transport							
SANS 10254	Installation, maintenance, replacement and repair of fixed electric storage water							
	heating systems							
SANS 10227	SANS 10227: Criteria for the operation of inspection authorities performing							
	inspections in terms of the Pressure Equipment Regulations							
SANS 10019	SANS 10019: Transportable metal containers for compressed gas - Basic							
	design, manufacture, use and maintenance							
SANS 1475 - 1:	SANS 1475 - 1: The production of reconditioned fire-fighting equipment - Part							
	1: Portable and wheeled (mobile) rechargeable fire extinguishers							
SANS 10087	The handling, storage, distribution and maintenance of liquefied petroleum gas							
	in domestic, commercial and industrial installations:							
	Part 1: Liquefied petroleum gas installations involving gas storage containers of							
	individual water capacity not exceeding 500 $\ell$ and a combined water capacity							
	not exceeding 3 000 $\ell$ per installation							



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	Part 2: Installation in mobile units and small non-permanent buildings							
	Part 3: Liquefied petroleum gas installations involving storage vessels of							
	individual water capacity exceeding 500 $\ell$							
	Part 4: Transportation of LPG in bulk by road							
	Part 6: The application of liquefied petroleum and compressed natural gase							
	engine fuels for internal combustion engines							
	Part 7: Storage and filling sites for refillable liquefied petroleum gas (LF							
	containers of capacity not exceeding 9 kg							
	Part 8: The fuelling of fork-lift trucks and other LP gas operated vehicles							
	Part 10: Mobile filling stations for refillable liquefied petroleum gas (LPG)							
	containers of capacity not exceeding 9 kg.							
SANS 10147	Refrigeration systems including plants associated with air-conditioning systems							
SANS 1539	Appliances operating on liquefied petroleum gas - Portable and mobile							
	appliances - Safety aspects							
SANS 1237	Single-stage low-pressure regulators for liquefied petroleum gas (LPG)							
SANS 329	Industrial thermal processing equipment - Safety requirements for combustion							
	and fuel-handling systems							
SANS 10105 - 1	The use and control of fire-fighting equipment - Part 1: Portable and wheeled							
	(mobile) fire extinguishers							
SANS 1910	Portable refillable fire extinguishers							
SANS 1567	Portable rechargeable fire extinguishers - CO <sub>2</sub> type extinguishers							
SANS 10147	Refrigeration systems including plants associated with air-conditioning systems							
SANS 1539	Appliances operating on liquefied petroleum gas - Portable and n							
	appliances - Safety aspects							
SANS 1237	Single-stage low-pressure regulators for liquefied petroleum gas (LPG)							
SANS 1518	Transport of dangerous goods - Design, construction, testing, approval and							
	maintenance of road vehicles and portable tanks							
SANS 1668	Fibre-reinforced plastics (FRP) tanks for buried (underground) storage for							
	petroleum products							
SANS 1748 (All Parts)	Glass-fibre-reinforced thermosetting plastics (GRP) pipes							
SANS 7396-1	Medical gas pipeline systems - Part 1: Pipeline systems for compressed							
	medical gases and vacuum							
SANS 10019	Transportable containers for compressed, dissolved and liquefied gases - Basic							
	design, manufacture, use and maintenance							
SANS 10252-1	Water supply and drainage to buildings - Part 1: Water supply installations for							
	buildings							
SANS 10260 (All parts)	Industrial gas pipelines							
SANS 10147	Refrigerating systems including plants associated with air-conditioning systems							
SANS 10260 (All parts)	Water supply and drainage to buildings - Part 1: Water supply installations for buildings Industrial gas pipelines							



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SANS 10377-1	Pressure	vessels	for	human	occupancy	-	Part	1:	Hyperbaric	chambers
	(therapeutic)									

