DEPARTMENT OF TRADE AND INDUSTRY DEPARTEMENT VAN HANDEL EN NYWERHEID

No. 817

17 September 2010

STANDARDS ACT, 2008 STANDARDS MATTERS

In terms of the Standards Act, 2008 (Act No. 8 of 2008), the Council of the South African Bureau of Standards has acted in regard to standards in the manner set out in the Schedules to this notice.

All South African standards that were previously published by the South African Bureau of Standards with the prefix "SABS" have been redesignated as South African national standards and are now published by Standards South Africa (a division of SABS) with the prefix "SANS".

A list of all existing South African national standards was published by Government Notice No. 1373 of 8 November 2002.

In the list of SANS standards below, the equivalent SABS numbers, where applicable, are given below the new SANS numbers for the sake of convenience. Standards that were published with the "SABS" prefix are listed as such.

SCHEDULE 1: ISSUE OF NEW STANDARDS

The standards mentioned have been issued in terms of section 16(3) of the Act.

Standard No. and year	Title, scope and purport
SANS 3001-GR30:2010	Civil engineering test methods - Part GR30: Determination of the maximum dry density and optimum moisture content. Applies to gravel, sand and soil (silts and clays) and describes a method to determine the relationship between the moisture content and dry density of a material compacted in a 152 mm diameter mould using a total effort of 2 427 kNm per metre cubed, and the maximum dry density and optimum moisture content from the relationship (compaction curve) obtained.
SANS 3001-GR40:2010	Civil engineering test methods – Part GR40: Determination of the California bearing ratio. Specifies to gravels, sands and soils (silts and clays) and describes a method to determine the California bearing ratio (CBR) of a material compacted in a 152 mm diameter mould using three compaction efforts and penetrated using a steel piston.
SANS 6469-1:2010/ ISO 6469-1:2010	Electrically propelled road vehicles – Safety specifications – Part 1: On-board rechargeable energy storage system (RESS). Specifies requirements for the on-board rechargeable energy storage systems (RESS) of electrically propelled road vehicles, including battery-electric vehicles (BEVs), fuel-cell vehicles (FCVs) and hybrid electric vehicles (HEVs), for the protection of persons inside and outside the vehicle and the vehicle environment. It does not include flywheels and does not apply to RESS in motorcycles and vehicles not primarily intended as road vehicles, such as material handling trucks or fork-lift trucks.
SANS 6469-2:2010/ ISO 6469-2:010	Electrically propelled road vehicles - Safety specifications - Part 2: Vehicle operational safety means and protection against failures. Specifies requirements for operational safety means and protection against failures related to hazards specific to electrically propelled road vehicles, including battery-electric vehicles (BEVs), fuel-cell vehicles (FCVs) and hybrid electric vehicles (HEVs), for the protection of persons inside and outside the vehicle and the vehicle environment. It does not apply to motorcycles and vehicles not primarily intended as road vehicles, such as material handling trucks or fork-lift trucks.
SANS 8301:2010/ ISO 8301:1991	Thermal insulation – Determination of steady-state thermal resistance and related properties – Heat flow meter apparatus. Defines the use of the heat flow meter method, to measure the steady state heat transfer through flat slab specimens and the calculation of the heat transfer properties of specimens.
SANS 8713:2010/ ISO 8713:2005	Electric road vehicles – Vocabulary. Establishes a vocabulary of terms used in international standards generally in relation to electric road vehicles. It is not intended to give definitions of all parts within a vehicle, but focuses on terms specific to electric road vehicles.
SANS 8714:2010/ ISO 8714:2002	Electric road vehicles – Reference energy consumption and range – Test procedures for passenger cars and light commercial vehicles. Specifies test procedures for measuring the reference energy consumption and reference range of purely electrically propelled passenger cars and commercial vehicles of a maximum authorized total mass of 3 500 kg and a maximum speed of 70 km/h or more.
SANS 8715:2010/ ISO 8715:2001	<i>Electric road vehicles – Road operating characteristics.</i> Specifies the procedures for measuring the road performance of purely electrically propelled passenger cars and commercial vehicles of a maximum authorized total mass of 3 500 kg.
SATS 10004:2010/ ISO/TS 10004:2010	Quality management - Customer satisfaction - Guidelines for monitoring and measuring. Provides guidance in defining and implementing processes to monitor and measure customer satisfaction. Intended for use by organizations regardless of type, size or product provided. Focuses on customers external to the organization. Not intended for certification or contractual purposes, nor is it intended to change any rights or obligations under applicable statutory or regulatory requirements.
SANS 11954:2010/ ISO/TR 11954:2008	Fuel cell road vehicles – Maximum speed measurement. Describes test procedures for measuring the maximum road speed of fuel cell passenger cars and light duty trucks which use compressed hydrogen and which are not externally chargeable, in accordance with national or regional standards or legal requirements.
SANS 11955:2010/ ISO/TR 11955:2008	Hybrid-electric road vehicles – Guidelines for charge balance measurement. Describes procedures of charge balance measurement to ensure necessary and sufficient accuracy of a fuel consumption test on hybrid-electric vehicles (HEV) with batteries, which is conducted based on ISO 23274 (published in South Africa as an identical adoption under the designation SANS 23274).
SANS 13600:2010/ ISO 13600:1997	Technical energy systems – Basic concepts. Gives the basic concepts needed to define and describe technical energy systems. Introduces the concept technosphere and its division into two sectors. Prescribes the input-output model and the consolidation principle applied to technical energy systems.

Standard No. and year	Title, scope and purport
SANS 13601:2010/ ISO 13601:1998	Technical energy systems – Structure for analysis – Energyware supply and demand sectors. Specifies a structure that shall be used to describe and analyse technical energy systems. Defines subsectors of the energyware supply and demand sectors, and furthermore defines a model structure for each subsector.
SANS 13602-2:2010/ ISO 13602-2:2006	Technical energy systems – Methods for analysis – Part 2: Weighting and aggregation of energywares. Establishes guiding principles for the weighting and aggregation of energywares to ensure that energyware statistics at different levels of aggregation are transparent and comparable. Weighting and aggregation of energywares are only to be performed at the final stage of the energyware life cycle, where the energyware is a direct input to the users' conversion system.
SANS 14469-1:2010/ ISO 14469-1:2004	Road vehicles – Compressed natural gas (CNG) refuelling connector – Part 1: 20 MPa (200 bar) connector. Specifies CNG refuelling nozzles and receptacles constructed entirely of new and unused parts and materials, for road vehicles powered by compressed natural gas. Applies only to such devices designed for a service pressure of 20 MPa (200 bar), identified by the code B200, to those using CNG in accordance with ISO 15403 and having standardized mating components, and to connectors that prevent natural gas vehicles from being fuelled by dispenser stations with service pressures higher than that of the vehicle, while allowing them to be frelled by stations with service pressures less than or equal to the vehicle fuel system service pressure.
SANS 14469-2:2010/ ISO 14469-2:2007	Road vehicles – Compressed natural gas (CNG) refuelling connector – Part 2: 20 MPa (200 bar) connector, size 2. Applies to compressed natural gas (CNG) vehicle nozzles and receptacles, constructed entirely of new, unused parts and materials for which there is a demand, in particular for large CNG urban buses of refuelling times equivalent to those of urban buses driven by conventional diesel engines. The proposed connector, size 2, offers a larger cross section than the connector in accordance with SANS 14469-1 and, therefore, permits refuelling of the vehicles within significantly shorter time periods. Studies have shown that the proposed connector, size 2, offers more than twice the mass flow of the connectors specified in SANS 14469-1.
SANS 14469-3:2010/ ISO 14469-3:2006	Road vehicles – Compressed natural gas (CNG) refuelling connector – Part 3: 25 MPa (250 bar) connector. Applies to compressed natural gas (CNG) vehicle nozzles and receptacles, hereinafter referred to as devices, constructed entirely of new, unused parts and materials. Applies to devices with standardized mating components and that have a service pressure of 250 bar.
SANS 15112:2010/ ISO 15112:2007	Natural gas – Energy determination. Provides the means for energy determination of natural gas by measurement or by calculation, and describes the related techniques and measures that are necessary to take. Calculation of thermal energy is based on the separate measurement of the quantity, either by mass or by volume, of gas transferred and its measured or calculated calorific value. It also applies to any gas-measuring station from domestic to very large high-pressure transmission.
SANS 15500-2:2010/ ISO 15500-2:2001	Road vehicles - Compressed natural gas (CNG) fuel system components - Part 2: Performance and general test methods. Specifies performance and general test methods for compressed natural gas fuel system components intended for use on the types of motor vehicles defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Not applicable to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management, and refuelling receptacles.
SANS 15500-3:2010/ ISO 15500-3:2001	Road vehicles - Compressed natural gas (CNG) fuel system components - Part 3: Check valve. Specifies tests and requirements for the check valve, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Applies to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-4:2010/ ISO 15500-4:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 4: Manual valve. Specifies tests and requirements for the manual valve, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-5:2010/ ISO 15500-5:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 5: Manual cylinder valve. Specifies tests and requirements for the manual cylinder valve, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833 Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to lquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-6:2010/ ISO 15500-6:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 6: Automatic valve, Specifies tests and requirements for the automatic valve, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-7:2010/ ISO 15500-7:2002	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 7: Gas injector. Specifies tests and requirements for the gas injector, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel of dual-fuel applications). Does not apply to injectors intended for high-pressure injection to the combustion chamber, or to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-8:2010/ ISO 15500-8:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 8: Pressure indicator. Specifies tests and requirements for the pressure indicator, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.

Standard No. and year	Title, scope and purport
SANS 15500-9:2010/ ISO 15500-9:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 9: Pressure regulator. Specifies tests and requirements for the pressure regulator, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-10:2010/ ISO 15500-10:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 10: Gas-flow adjuster. Specifies tests and requirements for the gas-flow adjuster, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-11:2010/ ISO 15500-11:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 11: Gas/air mixer. Specifies tests and requirements for the gas/air mixer, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-12:2010/ ISO 15500-12:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 12: Pressure relief valve (PRV). Specifies tests and requirements for the pressure relief valve (PRV), a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-13:2010/ ISO 15500-13:2001	Road vehicles - Compressed natural gas (CNG) fuel system components - Part 13: Pressure relief device (PRD). Specifies tests and requirements for the pressure relief device (PRD), a compressed natural gas fuel system component intended for use on the types of motor vehicles defined in ISO 3833. Applicable to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). It is not applicable to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-14:2010/ ISO 15500-14:2002	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 14: Excess flow valve. Specifies tests and requirements for the excess flow valve, a compressed natural gas fuel system component intended for use on the types of motor vehicles defined in ISO 3833. Applicable to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel applications). Not applicable to, liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-15:2010/ ISO 15500-15:2001	Road vehicles - Compressed natural gas (CNG) fuel system components - Part 15. Gas-tight housing and ventilation hose. Specifies tests and requirements for the gas-tight housing and ventilation hose, compressed natural gas fuel system components intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-17:2010/ ISO 15500-17:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 17: Flexible fuel line. Specifies tests and requirements for the flexible fuel line, a compressed natural gas fuel system component in accordance with SAE J 517 (100R-8 hose) or JIS B 8362 intended for use on the types of motor vehicles defined in ISO 3833 Applicable to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Not applicable to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-18:2010/ ISO 15500-18:200)	Road vehicles – Compressed natural gas (CNC) fuel system components – Part 18: Filter. Specifies tests and requirements for the filter (standalone compressed natural gas fuel system component) intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-19:2010/ ISO 15500-19:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 19: Fittings. Specifies tests and requirements for fittings, compressed natural gas fuel system components intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-20:2010/ ISO 15500-20:2007	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 20: Rigid fuel line in material other than stainless steel. Provides specific requirements and tests applicable to the rigid fuel line in carbon steel, intended for use on the types of motor vehicle, as defined in ISO 3833, with a service pressure for natural gas as a fuel of 20 MPa (200 bar) settled at 15 °C. Applies to vehicles using natural gas which comply with requirements established in ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Does not apply to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.
SANS 15500-3:2010/ ISO 15500-3:2001	Road vehicles – Compressed natural gas (CNG) fuel system components – Part 3: Check valve. Specifies tests and requirements for the check valve, a compressed natural gas fuel system component intended for use on the types of motor vehicle defined in ISO 3833. Applies to vehicles using natural gas in accordance with ISO 15403 (mono-fuel, bi-fuel or dual-fuel applications). Applies to liquefied natural gas (LNG) fuel system components located upstream of, and including, the vaporizer, fuel containers, stationary gas engines, container mounting hardware, electronic fuel management and refuelling receptacles.

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Standard No. and year	Title, scope and purport
SANS 15501-1:2010/ ISO 15501-1:2001	Road vehicles – Compressed natural gas (CNG) fuel systems – Part 1: Safety requirements. Specifies the minimum safety requirements applicable for the functionality of CNG on-board fuel systems intended for use on the types of motor vehicle as defined in ISO 3833. Applies to vehicles using compressed natural gas in accordance with ISO 15403, including bi-fuel, original-production and converted vehicles.
SANS 15501-2:2010/ ISO 15501-2:2001	Road vehicles - Compressed natural gas (CNG) fuel systems - Part 2: Test methods. Specifies the test methods for checking the minimum safety requirements. Applies to the functionality of the fuel systems designed to operate on compressed natural gas of motor vehicles as defined in ISO 3833.
SANS 15970:2010/ ISO 15970:2008	Natural gas – Measurement of properties – Volumetric properties: density, pressure, temperature and compression factor. Gives requirements and procedures for the measurement of the properties of natural gas that are used mainly for volume calculation and volume conversion: density at reference and at operating conditions, pressure, temperature and compression factor.
SATR 19791:2010/ ISO/IEC TR 19791:2010	Information technology – Security techniques – Security assessment of operational systems. Provides guidance and criteria for the security evaluation of operational systems. Provides an extension to the scope of ISO/IEC 15408 (ISO/IEC 15408-1, ISO/IEC 15408-2 and ISO/IEC 15408-3 have been published in South Africa as identical adoptions under the designations SANS 15408-1, SANS 15408-2 and SANS 15408-2 and SANS 15408-2 hyber techniques and the security assessment of the security assessment of the security and the security assessment of the scope of ISO/IEC 15408-1, ISO/IEC 15408-3 have been published in South Africa as identical adoptions under the designations SANS 15408-1, SANS 15408-2 and SANS 15408-4), by taking into account a number of critical aspects of operational systems not addressed in ISO/IEC 15408 evaluation. Principal extensions that are required address evaluation of the operational environment surrounding the target of evaluation, and the decomposition of complex operational systems into security domains that can be separately evaluated.
SANS 20826:2010/ ISO 20826:2006	Automotive LPG components - Containers. Specifies the technical requirements for the design and the testing of automotive liquefied petroleum gas (LPG) containers, to be permanently attached to a motor vehicle that uses automotive LPG as a fuel. Specifies the design criteria, the requirements on construction and workmanship, and the marking and re-qualification procedures. Also specifies all tests, including their frequencies, to be carried out on autogas containers, during production and performance verification. Gives specific recommendations on the tests to be carried out when changing the design.
SANS 23273-1:2010/ ISO 23273-1:2006	Fuel cell road vehicles – Safety specifications – Part 1: Vehicle functional safety. Specifies the essential requirements for the functional safety of fuel cell (FCV) with respect to hazards to persons and the environment inside and outside of the vehicles caused by the operational characteristics of the fuel cell power system. Does not apply to manufacturing, maintenance or repair of the vehicles. Addresses both normal operating (fault free) condition and single fault conditions of the vehicles. Applies only when the maximum working voltage of the on-board electrical circuits is lower than 1 000 V a.c. or 1 500 V d.c. according to national or international standards or legal requirements (or a combination of these).
SANS 23273-2:2010/ ISO 23273-2:2006	Fuel cell road vehicles – Safety specifications – Part 2: Protection against hydrogen hazards for vehicles fuelled with compressed hydrogen. Specifies the essential requirements for fuel cell vehicles (FCVs) with respect to the protection of persons and the environment inside and outside the vehicle against hydrogen related hazards. Applies only to such FCVs where compressed hydrogen is used as fuel for the fuel cell system. Does not apply to manufacturing, maintenance and repair. Addresses both normal operating (fault free) and single fault conditions of the vehicles.
SANS 23273-3:2010/ ISO 23273-3:2006	Fuel cell road vehicles – Safety specifications – Part 3: Protection of persons against electric shock Specifies the essential requirements of fuel cell vehicles (FCVs) for the protection of persons and the environment inside and outside the vehicles against electric shock. Applies only to on-board electric circuits with working voltages between 25 V a.c. and 1 000 V a.c., or 60 V d.c., respectively. Does not apply to FCVs connected to an external electric power supply, component protection, or manufacturing, maintenance and repair.
SANS 23274:2010/ ISO 23274.2007	Hybrid-electric road vehicles – Exhaust emissions and fuel consumption measurements – Non-externally chargeable vehicles. Establishes a uniform chassis dynamometer test procedure for hybrid-electric road vehicles (HEVs) with internal combustion engines (ICEs) classified as passenger cars and light duty trucks. Proposes ways of correcting the measured emissions and fuel consumption of HEVs, in order to obtain the correct values when the battery state of charge (SOC) of the rechargeable energy storage system (RESS) does not remain the same between the beginning and the end of the test cycle. Applies to HEVs with ICEs of which the nominal energy of the RESS is at least 2% of the total energy consumption by the vehicle over the test cycle.
SANS 23828:2010/ ISO 23828:2008	Fuel cell road vehicles – Energy consumption measurement – Vehicles fuelled with compressed hydrogen. Specifies the procedures for measuring the energy consumption of fuel cell passenger cars and light duty trucks that use compressed hydrogen and that are not externally chargeable.
SANS 26782:2010/ ISO 26782:2009	Anaesthetic and respiratory equipment – Spirometers intended for the measurement of time forced expired volumes in humans. Specifies requirements for spirometers intended for the assessment of pulmonary function in humans weighing more than 10 kg. It applies to spirometers that measure time forced expired volumes, either as part of an integrated lung function device or as a stand-alone device, irrespective of the measuring method employed.
SANS 60034-2-2:2010/ IEC 60034-2-2:2010	Rotating electrical machines – Parl 2-2: Specific methods for determining separate losses of large machines from texts – Supplement to IEC 60034-2-1. Applies to large rotating electrical machines and establishes additional methods of determining separate losses and to define an efficiency supplementing IEC 60034-2-1 (published in South Africa as an identical adoption under the designation SANS 60034-2-1). These methods apply when full-load testing is not practical and result in a greater uncertainty.
SANS 60079-10-1:2010/ IEC 60079-10-1:2008	Explosive atmospheres – Part 10-1: Classification of areas – Explosive gas atmospheres. Classifies areas where fiaminable gas or vapour or mist hazards may arise and may then be used as a basis to support the proper selection and installation of equipment for use in a hazardous area. Does not apply to mines susceptible to firedamp; the processing and manufacture of explosives; areas where a hazard may arise due to the presence of combustible dusts or fibres; catastrophic failures which are beyond the concept of abnormality dealt with in this standard; rooms used for medical purposes; and domestic premises.
SANS 62271-208:2010/ IEC/TR 62271-208:2009	High-voltage switchgear and controlgear – Part 208: Methods to quantify the steady state, power-frequency electromagnetic fields generated by HV switchgear assemblies and HV/LV prefabricated substations. Gives practical guidance for the evaluation and documentation of the external electromagnetic fields which are generated by HV switchgear assemblies and HV/LV prefabricated substations.

Standard No. and year	Title, scope and purport
SATR 62540:2010/ IEC/TR 62540:2009	Radio frequency identification (RFID) of stationary lead acid cells and monoblocs – Tentative requirements. Applies to all stationary lead-acid cells and monohloc batteries for float charge applications (i.e. permanently connected to a load and to a d.e. power supply), in a static location (i.e. not generally intended to be moved from place to place) and incorporated into stationary equipment or installed in battery rooms for use in telecom, uninterruptible power supply (UPS), utility switching, emergency power or similar applications. These batteries are covered by SANS 60896-11, SANS 60896-21 and SANS 60896-22. The objective of this technical report is to assist the supplier and user of radio frequency identification devices (RFID) in the understanding of the requirements for performance, durability, data content and structure, the write/read capability of such devices, and to provide guidance so that the RFID tag on the battery will result in meeting the needs of a particular industry application and operational condition.

SCHEDULE 2: AMENDMENT OF EXISTING STANDARDS

The standards mentioned have been amended in terms of section 16(3) of the Act. The number and date of a standard that has been superseded appear in brackets below the new number. In the case of an amendment issued in consolidated format, the edition number of the new (consolidated) edition appears in brackets below the number of the standard.

Standard No. and ycar	Title, scope and purport
SANS 151:2010 (Ed. 6.4)	Fixed electric storage water heaters. Consolidated edition incorporating amendment No. 4. Amended to redefine the definitions of "cistern type storage water heater" and "pipe connector", to include requirements for heat pump systems, to clarify requirements for stored water, the position of thermostats and pipe connectors, and the test requirement for units where geysers have provision for the fitment of heating elements and thermostats, and to allow non-metallic seals for pipe connectors with the appropriate test requirements.
SANS 211:2010/ CISPR 11:2010 (Ed. 4.1)	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement. Consolidated edition incorporating amendment No. 1. Amended to change a reference, add a definition for 'sinall equipment', and replace the 'class' selection criterion with a 'size-of-equipment' criterion with regard to the minimum separation distance between the equipment under test and the measurement antenna.
SANS 192:2010 (SABS SM 822:1978)	Pesticides: Biological evaluation of the efficacy and toxicity of molluscicides. Specifies testing methods for the biological evaluation of the efficacy and toxicity of molluscicides against common garden snails and slugs.
SANS 348:2010 (Ed. 1,1)	Safety surgical scalpels, sterile packed for single-use. Consolidated edition incorporating amendment No. 1. Amended to update table 1 on recommended colour codes identifying blade sizes and profiles.
SANS 1151:2010 (Ed. 3.2)	Portable rechargeable fire extinguishers – Halogenated hydrocarbon type extinguishers. Consolidated edition incorporating amendment No. 2. Amended to change the designation of classes of fire, to correct cross references, to update referenced standards, to modify and add definitions for classes of fire, and to modify the definitions for "charge" and "portable fire extinguisher".
SANS 1291-1:2010 (Ed. 1.2)	Flexible polyurethane foam sleeping mats and mattresses – Part 1: Mats and mattresses having unsupported polymeric covers. Consolidated edition incorporating amendment No. 2. Amended to update a referenced standard, update the definition of "acceptable", change the material requirements and to delete a subclause on dimensions of core.
SANS 1463-1:2010/ EN 1463-1:2009	Road marking materials – Retroreflecting road studs – Part 1: Initial performance requirements. Specifies the initial performance requirements and laboratory test methods for retroreflecting road studs intended for use as permanent and temporary road marking materials.
SANS 1475-1:2010 (Ed. 3.4)	The production of reconditioned fire-fighting equipment – Part 1: Portable and wheeled (mobile) rechargeable fire extinguishers. Consolidated edition incorporating amendment No. 4. Amended to add the definition of "actual mass" and renumber definitions accordingly, insert a note, delete the definition of "total mass", move reference to legislation to the foreword, change the requirements for topping-up of extinguishing medium, modify the requirement for re-coating of aluminium cylinders, add information on extinguisher test pressure, modify the requirements for record keeping, replace "total mass" with "actual mass" in the text, update requirements for marking, delete recommendations for reconditioning of fire extinguishers and modify a requirement for maintenance of fire extinguishers.
SANS 1475-2:2010 (Ed. 4.1)	The production of reconditioned fire-fighting equipment – Part 2: Fire hose reels and above-ground hydraws. Consolidated edition incorporating amendment No. 1. Amended to change the title, to add requirements to the clause on records kept by the reconditioning organization and to renumber a subclause accordingly.
SANS 1580:2010 (Ed. 1.3)	Hexagonal steel wire mesh gabions and revet mattresses. Consolidated edition incorporating amendment No. 3. Amended to update referenced standards, and to add requirements for materials.
SANS 1599-2:2010 (Ed. 1.2)	Cranes – Part 2: Power-driven mobile cranes. Consolidated edition incorporating amendment No. 2. Amended to move reference to South African legislation in the text to the foreword, to update referenced documents, to delete the note to the subclause on rated-capacity indicator, to replace "maximum capacity" with "rated capacity" and to replace "positive overload prevention device", "maximum-capacity indicator", and "positive overload protection device" with "rated-capacity indicator".
SANS 1707-2.2010 (Ed. 1.1)	Sawn eucalyptus timber - Part 2: Brandering and battens. Consolidated edition incorporating amendment No. 1. Amended to update referenced standards and to remove reference to the certification mark scheme.
SANS 1783-4:2010 (Ed. 1.4)	Sawn softwood timber - Part 4: Brandering and battens. Consolidated edition incorporating amendment No. 4. Amended to revise references to certification marks and to update referenced standards.

Standard No. and year	Title, scope and purport
SANS 1808-24;2010 (Ed. 1.2)	Water supply and distribution system components – Part 24: Gas-operated water heaters. Consolidated edition incorporating amendment No. 2. Amended to delete part 85 from the list of parts in the foreword, to update a referenced standard, and to change a requirement regarding metallic materials.
SANS 1808-58:2010 (Ed. 1.3)	Water supply and distribution system components – Part 58: In-line strainers. Consolidated edition incorporating amendment No. 3. Amended to delete part 85 from the list of parts in the foreword, and to update a referenced standard.
SANS 2200:2010/ CISPR 20:2006	Sound and television broadcast receivers and associated equipment – Immunity characteristics – Limits and methods of measurement. Applies to television broadcast receivers, sound broadcast receivers and associated equipment intended for use in the residential, commercial and light industrial environment. Describes the methods of measurement and specified limits applicable to sound and television receivers and to associated equipment with regard to their immunity characteristics to disturbing signals. Also applies to the immunity of outdoor units of direct to home (DTH) satellite receiving systems for individual reception.
SANS 3779:2010/ ISO 3779:2009 (SABS ISO 3779:1983)	Road vehicles – Vehicle identification number (VIN) – Content and structure. Specifies the content and structure of a vehicle identification number (VIN) in order to establish, on a worldwide basis, a uniform identification numbering system for road vehicles.
SANS 3780:2010/ ISO 3780:2009 (SABS ISO 2780:1983)	Road vehicles – World manufacturer identifier (WMI) code. Specifies the content and structure of an identifier in order to establish, on a worldwide basis, the identification of road vehicle manufacturers. The world manufacturer identifier (WMI) constitutes the first section of the vehicle identification number (VIN) described in ISO 3779 (published in South Africa as an identical adoption under the designation SANS 3779).
SANS 5634:2010 (SABS SM 634:1972)	Determination of wet compressibility of leather and fibreboards. Specifies a method for the determination of the wet compressibility of leather and fibreboards.
SANS 10186:2010 (Ed 3.3)	The installation of textile floor coverings. Consolidated edition incorporating amendment No. 3. Amended to include "pressure sensitive tiles".
SANS 10400-V:2010 (SABS 0400:1990)	The application of the National Building Regulations – Part V: Space heating. Establishes requirements for flue pipes, chimneys, and hearths and fireplaces.
SANS 11193-1:2010/ ISO 11193-1:2008	Single-use medical examination gloves – Part 1: Specification for gloves made from rubber latex or rubber solution. Specifies requirements for packaged sterile, or bulked non-sterile, rubber gloves intended for use in medical examinations and diagnostic or therapeutic procedures to protect the patient and the user from cross-contamination. It also covers rubber gloves intended for use in handling contaminated medical materials and gloves with smooth surfaces or with textured surfaces over all or part of the glove.
SANS 13600:2010/ ISO 13600:1997	Technical energy systems - Basic concepts. ISO corrigendum No. 1. Corrected to replace the figure on the two sectors of the technosphere.
SANS 20069:2010/ ECE R69:2009	Uniform provisions concerning the approval of rear marking plates for slow-moving vehicles (by construction) and their trailers. Applies to rear marking plates for vehicles of category M, N, O and T and for mobile machinery, which, by construction, cannot move faster than 40 km/h.
SANS 20070:2010/ ECE R 70:2009	Uniform provisions concerning the approval of rear marking plates for heavy and long vehicles. Applies to rear marking plates for articulated class II and III vehicles of category M, vehicles of category N3, except tractors for semi-trailers, vehicles of category O1, O2 and O3 exceeding 8 m in length, and vehicles of category O4.
SANS 26782:2010/ ISO 26782:2009	Anaesthetic and respiratory equipment – Spirometers intended for the measurement of time forced expired volumes in humans. ISO corrigendum No. 1. Changed to replace point $2 \text{ "t0} = 0,75 \text{ s" with "t0} = 0,075 \text{ s" in figure A.1.}$
SANS 60034-18-1 2010/ IEC 60034-18-1 2010 (SABS IEC 60034-18-1:1992)	Rotating electrical machines – Part 18-1: Functional evaluation of insulation systems – General guidelines. Deals with the general guidelines for functional evaluation of electrical insulation systems, used or proposed to be used in rotating eletrical machines within the scope of IEC 60034-1 (published in South Africa as an identical adoption under the designation SANS 60034-1), in order to qualify them.
SANS 60034-22:2010/ IEC 60034-22:2009	Rotating electrical machines – Part 22: AC generators for reciprocating internal combustion (RIC) engine driven generating sets. Establishes the principal characteristics of a.c. generators under the control of their voltage regulators when used for reciprocating internal combustion (RIC) engine driven generating set applications.
SANS 60079-25:2010/ IEC 60079-25:2010	Explosive atmospheres - Part 25: Intrinsically safe electrical systems. Contains specific requirements for the construction and assessment of intrinsically safe electrical systems, type of protection "i", intended for use, as a whole or in part, in locations in which the use of Group J, II or III apparatus is required.
SANS 60317-8:2010/ IEC 60317-8:2010 (SABS IEC 60317-8:2007)	Specifications for particular types of winding wires – Part 8: Polyesterimide enamelled round copper wire, class 180. Specifies the requirements of enamelled round copper winding wires of class 180 with a sole coating based on polyesterimide resin, which may be modified provided it retains the chemical identity of the original resin and meets all specified wire requirements.
SANS 60728-2:2010/ IEC 60728-2:2010	Cable networks for television signals, sound signals and interactive services – Part 2: Electromagnetic compatibility for equipment. Applies to the radiation characteristics and immunity to electromagnetic disturbance of EM-active equipment (active and passive equipment) for the reception, processing and distribution of television, sound and interactive multimedia signals. Specifies requirements for maximum allowed radiation, minimum immunity and minimum screening effectiveness and describes test methods for conformance testing.
SANS 60745-2-14:2010/ IEC 60745-2:14:2006 (Ed. 2.1)	Hand-held motor-operated electric tools - Safety - Part 2-14: Particular requirements for planers. Consolidated edition incorporating amendment No. 1. Amended to change the requirements for mechanical hazards.

Standard No. and year	Title, scope and purport
SANS 60851-2:2010/ IEC 60851-2:2009	Winding wires - Test methods - Part 2: Determination of dimensions. Specifies the method of "Test 4: Dimensions" for insulated winding wires used for windings in electrical equipment.
SANS 61010-031:2010/ IEC 61010-031:2008 (Ed. 1.1)	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test. Consolidated edition incorporating amendment No. 1. Amended to include requirements for a new type of probe assembly, to change the definition of "pollution degree", to change tests for dielectric strength, construction, temperature, creepage, flexing and pull, to correct information required to do calculations, and to include requirements for prevention of hazards from arc flash and short-circuits.
SANS 61347-2-9:2010/ IEC 61347-2-9:2009 (Ed. 1.2)	Lamp controlgear – Part 2-9: Particular requirements for ballasts for discharge lamps (excluding fluorescent lamps). Consolidated edition incorporating amendment No. 2. Amended to change mandatory markings requirements, to add requirements for no-load output voltage and, in annex K, additional requirements for built-in magnetic ballasts with double or reinforced insulation.
SANS 61558-1:2010/ IEC 61558-1:2009 (Ed. 2.1)	Safety of power transformers, power supplies, reactors and similar products – Part 1: General requirements and tests. Consolidated edition incorporating amendment No. 1. Amended to replace text in the fault condition test and text on the insulation between windings, and to add special precautions for the installation or use of equipment.

SCHEDULE 3: CANCELLATION OF STANDARDS

In terms of section 16(3) of the Act the following standards have been cancelled.

Standard No. and year	Title
SANS 664:1999	Cast iron gate valves for waterworks.
SANS 665:2000	Cast iron gate valves for general purposes.
SANS 61312-3:2006	Protection against lightning electromagnetic impulse - Part 3: Requirements of surge protective devices (SPDs).

SCHEDULE 4: ADDRESSES OF SABS OFFICES

The addresses of offices of the South African Bureau of Standards where copies of standards mentioned in this notice can be obtained, are as follows:

1. The CEO, South African Bureau of Standards, 1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria 0001.

- 2. The Manager, Western Cape Regional Office, SABS, Liesbeek Park Way, Rosebank, PO Box 615, Rondebosch 7701.
- 3 The Manager, Eastern Cape Regional Office, SABS, 30 Kipling Road, cor. Diaz and Kipling Roads, Port Elizabeth, PO Box 3013, North End 6056.

4. The Manager, KwaZulu-Natal Regional Office, SABS, 15 Garth Road, Waterval Park, Durban, PO Box 30087, Mayville 4058.

5. The Control Officer, Bloemfontein Branch Office, SABS, 34 Victoria Road, Willows, Bloemfontein, PO Box 20265, Willows 9320.