

TABLE B: Electricity (Safety) Regulations 2010 – Proposed Updated Standards

These tables below detail the proposed updates to the Electricity (Safety) Regulations (2010).

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Impacts

In general, adopting the latest version of a referenced standard in the list of proposed amendments will only have minor impacts, but some proposed updates may have a considerable impact. We have, therefore graded the proposed list of amendments into three colours, according to our understanding of the potential impact:

- Green = no impact because there is no change to the standard.
- Blue = minimal impact as we are updating the standard to the latest version.
- Yellow = potential impact from new or different requirements.
- No colour = any proposed new standard.

Electricity (Safety) Regulations

Schedule 2

Electrical codes of practice referred to in regulations

Abbreviations used in regulations	Full title	Latest edition	Suggested change and rationale
ECP 34	New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001) approved on 21 December 2001	No changes to any of these codes	
ECP 35	New Zealand Electrical Code of Practice for Power Systems Earthing (NZECP 35:1993) approved on 18 March 1993		
ECP 36	New Zealand Electrical Code of Practice for Harmonic Levels (NZECP 36:1993) approved on 18 March 1993		
ECP 46	New Zealand Electrical Code of Practice for High Voltage Live Line Work (NZECP 46.2003) approved on 19 March 2003		
ECP 50	New Zealand Electrical Code of Practice for Repair and Maintenance of Domestic Electrical Appliances by the Owner of the Appliance (NZECP 50:2004) approved on 27 July 2004		
ECP 51	New Zealand Electrical Code of Practice for Homeowner/Occupier's Electrical Wiring Work in Domestic Installations (NZECP 51:2004) approved on 27 July 2004		
ECP 60	New Zealand Electrical Code of Practice for Inspection, Testing and Certification of Low Voltage A.C. Railway Signalling Control Circuits (NZECP 60:1997) approved on 11 March 1998		

Official Standards referred to in regulations

All applicable amendments in this section are to be referenced in full to ensure clarity.

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
AS 2290.1	AS 2290.1:1990: Electrical equipment for coal mines—Maintenance of electrical equipment for hazardous areas	Cited edition of standard has been superseded. AS/NZS 2290.1:2014 <i>Electrical equipment for coal mines - Introduction, inspection and maintenance - Part 1: For hazardous areas</i>	Immediate transition to most recent standard. Maintenance standard, no transition issue.
AS 2290.3	AS 2290.3:1990: Electrical equipment for coal mines—Maintenance and overhaul—Maintenance of gas detecting and monitoring equipment	Cited edition of standard has been superseded. AS/NZS 2290.3:2018 <i>Electrical equipment for coal mines - Introduction, inspection and maintenance - Part 3: Gas detecting and monitoring equipment</i>	Immediate transition to most recent standard. Amendment published 31/10/2019.
AS 4777.1	AS 4777.1:2005: Grid connection of energy systems via inverters—Part 1: Installation requirements	Cited edition of standard has been superseded. AS/NZS 4777.1:2016 <i>Grid connection of energy systems via inverters - Part 1: Installation requirements</i>	Immediate transition to most recent standard.
AS/NZS 1299	AS/NZS 1299:2009: Electrical equipment for mines and quarries—Explosion-protected three-phase restrained plugs and receptacles for working voltages up to and including 3.3 kV	One amendment to cited edition of standard since citation AS/NZS 1299:2009: <i>Electrical equipment for mines and quarries—Explosion-protected three-phase restrained plugs and receptacles for working voltages up to and including 3.3 kV</i> AS/NZS 1299:2009 A1 Published 30/03/2012	Immediate transition to most recent standard including Amendment 1.

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
AS/NZS 1677.2	AS/NZS 1677.2:1998: Refrigerating systems—Part 2: Safety requirements for fixed applications: including Amendments 1 and 2	<p>Cited edition of standards has been superseded.</p> <p>Revised standards are: AS/NZS 5149.1:2016 A1 <i>Refrigerating systems and heat pumps - Safety and environmental requirements - Part 1: Definitions, classification and selection criteria: Amendment 1:2018</i> Published 23/03/2018</p> <p>AS/NZS 5149.1:2016 A2 <i>Refrigerating systems and heat pumps - Safety and environmental requirements Part 1: Definitions, classification and selection criteria: Amendment 2:2018</i> Published 19/07/2018</p>	<p>Immediate transition to:</p> <p>AS/NZS 5149.1:2016 A1 <i>Refrigerating systems and heat pumps - Safety and environmental requirements - Part 1: Definitions, classification and selection criteria: Amendment 1:2018</i></p> <p>AS/NZS 5149.1:2016 A2 <i>Refrigerating systems and heat pumps - Safety and environmental requirements Part 1: Definitions, classification and selection criteria: Amendment 2:2018</i></p>
AS/NZS 1747	AS/NZS 1747:2003: Reeling, trailing and feeder cables used for mining—Repair, testing and fitting of accessories	<p>One amendment to cited standard since citation:</p> <p>AS/NZS 1747:2003 A1 <i>Reeling, trailing and feeder cables used for mining - Repair, testing and fitting of accessories: Amendment 1</i> Published 18/08/2005</p>	Immediate transition to most recent standard including Amendment 1
AS/NZS 1802	AS/NZS 1802:2003: Electric cables—Reeling and trailing—For underground coal mining purposes	<p>Cited standard has been superseded.</p> <p>AS/NZS 1802:2018 <i>Electric cables - Reeling and trailing - For underground coal mining</i></p>	Immediate transition to most recent standard
AS/NZS 1826	AS/NZS 1826:2008: Electrical equipment for explosive gas atmospheres—Special protection—	<p>Cited standard is current</p> <p>AS/NZS 1826:2008</p>	No change

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
	Type of protection 's'	<i>Electrical equipment for explosive gas atmospheres - Special protection - Type of protection 's'</i>	
AS/NZS 1972	AS/NZS 1972:2006: Electric cables— Underground coal mining purposes— Other than reeling and trailing	Cited standard is current AS/NZS 1972:2006: <i>Electric cables—Underground coal mining purposes—Other than reeling and trailing</i>	No change
AS/NZS 2500	AS/NZS 2500:2004 Guide to the safe use of electricity in patient care	Cited standard is current AS/NZS 2500:2004 <i>Guide to the safe use of electricity in patient care</i>	No change
AS/NZS 3000:2007	AS/NZS 3000:2007: Electrical installations (known as the Australian/New Zealand Wiring Rules): including Amendments 1 and 2, subject to the following modifications: <ul style="list-style-type: none"> 1. In 4.5.2.3.2, change “warning sign shall be installed” to “warning sign shall be installed or fitted in domestic installations but may be omitted from all other installations”. 2. In 4.18.1(b) and (c), change “all live (active and neutral) conductors” to “all active conductors”. 3. Add a new paragraph to 4.18.2: “In New Zealand, only electrical equipment that is directly associated with the gas supply may be 	Cited edition of standards has been superseded. AS/NZS 3000:2018 <i>Electrical installations - Known as the Australian/New Zealand Wiring Rules</i> Amendment 1 published 31/01/2020	Please see summary document

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
	<p>installed in the hazardous areas of a domestic installation, shown in figure 4.10.”</p> <p>4. Replace 4.18.3 with “In New Zealand, only electrical equipment (including metering equipment) that is directly associated with the gas supply may be installed in the exclusion zones of a domestic installation in figure 4.11.”</p>		
AS/NZS 3001	AS/NZS 3001:2008: Electrical installations—Transportable structures and vehicles including their site supplies: including Amendment 1	<p>Cited standard is current</p> <p>Amendment A was superseded by amendment 1 on 25/06/2012</p> <p>AS/NZS 3001:2008 A1</p> <p><i>Electrical Installations - Transportable structures and vehicles including their site supplies: Amendment 1:2012</i></p>	No change
AS/NZS 3002	AS/NZS 3002:2008: Electrical installations—Shows and carnivals, subject to the variation that references to AS/NZS 3439.4 must be read as references to AS/NZS 3439.4:2009	<p>Cited standard is current</p> <p>AS/NZS 3002:2008: Electrical installations—Shows and carnivals</p>	No change
AS/NZS 3003	AS/NZS 3003:2011: Electrical installations—Patient areas	<p>Cited edition of standards has been superseded.</p> <p>AS/NZS 3003:2018</p> <p><i>Electrical installations - Patient areas</i></p> <p>Amendment 1 published 29/07/2019</p>	<p>Transition: with immediate effect – significant change to provision of healthcare in homes. We do not want to create confusion by continuing the old rules when the new rules are more practical and facilitative than the old standard.</p> <p>Regulations 113, 118A and 118B will come into force, to allow for current</p>

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
			<p>installations, those currently being installed, those in transit to NZ and those that are the subject of an irrevocable purchasing order by a person in NZ to continue as normal.</p> <p>All of the above clauses should be amended to include the correct dates.</p>
AS/NZS 3004.1	AS/NZS 3004.1:2008: Electrical installations—Marinas and recreational boats—Part 1: Marinas	<p>Cited edition of standards has been superseded.</p> <p>AS/NZS 3004.1:2014 <i>Electrical installations - Marinas and boats - Part 1: Marinas</i></p>	Immediate transition to most recent standard
AS/NZS 3004.2	AS/NZS 3004.2:2008: Electrical installations—Marinas and recreational boats—Part 2: Recreational boats installations	<p>Cited edition of standards has been superseded.</p> <p>AS/NZS 3004.2:2014 <i>Electrical installations - Marinas and boats - Part 2: Boat installations</i></p> <p><i>Amendment 1 published 17/07/2015</i></p>	Immediate transition to most recent standard
AS/NZS 3007	AS/NZS 3007:2013: Electrical equipment in mines and quarries—Surface installations and associated processing plant	<p>Cited standard is current</p> <p>AS/NZS 3007:2013: Electrical equipment in mines and quarries—Surface installations and associated processing plant</p>	No change
AS/NZS 3009	AS/NZS 3009:1998: Electric installations—Emergency power supplies in hospitals	<p>Cited standard is current</p> <p>AS/NZS 3009:1998: Electric installations—Emergency power supplies in hospitals</p>	No change
AS/NZS 3010	AS/NZS 3010:2005: Electrical installations—Generating sets	<p>Cited edition of standards has been superseded.</p> <p>AS/NZS 3010:2020 <i>Electrical installations—Generating</i></p>	Immediate transition to most recent standard

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
		<i>sets</i>	
AS/NZS 3012	AS/NZS 3012:2010: Electrical installations—Construction and demolition sites	One amendment to cited edition of standard since citation: AS/NZS 3012:2019 A1 <i>Electrical installations - Construction and demolition sites: Amendment 1</i> published 20/10/2015	Immediate transition to most recent standard including Amendment 1
AS/NZS 3014	AS/NZS 3014:2003: Electrical installations—Electric fences: including Amendment 1	Cited standard is current AS/NZS 3014:2003: <i>Electrical installations—Electric fences: including Amendment 1</i>	No change
AS/NZS 3016	AS/NZS 3016:2002: Electrical installations—Electric security fences: including Amendment 1	Cited standard is current AS/NZS 3016:2002: <i>Electrical installations—Electric security fences: including Amendment 1</i>	No change
AS/NZS 3019	AS/NZS 3019:2007: Electrical installations—Periodic verification	Cited standard is current AS/NZS 3019:2007: Electrical installations—Periodic verification	No change
AS/NZS 3112	AS/NZS 3112:2011: Approval and test specification—Plugs and socket-outlets: including Amendment 1	Cited edition of standard has been superseded. AS/NZS 3112:2017 <i>Approval and test specification - Plugs and socket-outlets</i>	Immediate transition to most recent standard
AS/NZS 3190	AS/NZS 3190:2011: Approval and test specification—Residual current devices (current-operated earth-leakage devices)	Cited edition of standard has been superseded. AS/NZS 3190:2016 <i>Approval and test specification—Residual current devices (current-operated earth-leakage devices)</i> Amendment 1 published 10/07/2020	Immediate transition to most recent standard

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
AS/NZS 3439	AS/NZS 3439.4.2009: Low-voltage switchgear and controlgear assemblies—Part 4: Particular requirements for assemblies for construction sites (ACS)	<p>Cited standard is current.</p> <p>AS/NZS 3439.4.2009: <i>Low-voltage switchgear and controlgear assemblies—Part 4: Particular requirements for assemblies for construction sites (ACS)</i></p> <p>Standard will be superseded on 24/05/2021 by</p> <p>AS/NZS 61439.4:2016 <i>Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS)</i></p>	<p>Immediate transition to:</p> <p>AS/NZS 61439.4:2016 <i>Low-voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS)</i></p> <p>Or</p> <p>AS/NZS 3439.4.2009: <i>Low-voltage switchgear and controlgear assemblies—Part 4: Particular requirements for assemblies for construction sites (ACS)</i> until 24/05/2021</p> <p>This is an update to the most recent standard, with a transition period allowed to conform with Standards NZ recommendation.</p>
AS/NZS 3551	AS/NZS 3551:2012: Management programs for medical devices	<p>Two Amendments to standard since citation</p> <p>AS/NZS 3551:2012 A1 <i>Management programs for medical equipment: Amendment 1</i> Published 29/10/2013</p> <p>AS/NZS 3551:2012 A2 <i>Management programs for medical equipment: Amendment 2</i> Published 08/09/2016</p> <p>Both Amendments incorporated</p>	<p>Immediate transition to most recent standard including Amendments 1 and 2.</p>
AS/NZS 3760	AS/NZS 3760:2010: In-service safety inspection and testing of electrical equipment: including Amendments 1 and 2	<p>Cited standard is current</p> <p>AS/NZS 3760:2010: In-service safety inspection and testing</p>	<p>No change</p>

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
		of electrical equipment: including Amendments 1 and 2	
AS/NZS 3800	AS/NZS 3800:2005: Electrical equipment for explosive atmospheres—Repair and overhaul	Cited edition of standard has been superseded. AS/NZS 3800:2020 <i>Electrical equipment for explosive atmospheres—Repair and overhaul</i>	Immediate transition to most recent standard
AS/NZS 3820	AS/NZS 3820:2009: Essential safety requirements for electrical equipment: including Amendment 1	Cited standard is current AS/NZS 3820:2009: Essential safety requirements for electrical equipment: including Amendment 1	No change
AS/NZS 3832	AS/NZS 3832:1998: Electrical installations—Cold-cathode illumination systems	Cited standard is current AS/NZS 3832:1998: <i>Electrical installations—Cold-cathode illumination systems</i>	This standard is to be withdrawn as it is not referenced anywhere else throughout the regulations.
AS/NZS 4249	AS/NZS 4249:1994: Electrical safety practices—Film, video and television sites	Cited standard is current AS/NZS 4249:1994: <i>Electrical safety practices—Film, video and television sites</i>	No change
AS/NZS 4509.1	AS/NZS 4509.1:2009: Stand-alone power systems—Part 1: Safety and installation	Cited standard is current AS/NZS 4509.1:2009: <i>Stand-alone power systems—Part 1: Safety and installation</i> Standard was reconfirmed in 2016	No change
AS/NZS 4701	AS/NZS 4701:2000: Requirements for domestic electrical appliances and equipment for reconditioning or parts recycling	Cited standard is current AS/NZS 4701:2000: <i>Requirements for domestic electrical appliances and equipment for reconditioning or parts recycling</i>	No change

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
		Standard was reconfirmed in 2016	
AS/NZS 4761.1	AS/NZS 4761.1:2008: Competencies for working with electrical equipment for hazardous areas (EEHA)— Competency Standards	Cited edition of standard has been superseded. AS/NZS 4761.1:2018 <i>Competencies for working with electrical equipment for hazardous areas (EEHA) - Part 1: Competency Standards</i>	Immediate transition to most recent standard
AS/NZS 4836	AS/NZS 4836:2011: Safe working on or near low-voltage electrical installations and equipment	Cited standard is current AS/NZS 4836:2011: <i>Safe working on or near low-voltage electrical installations and equipment</i>	No Change
AS/NZS 5033	AS/NZS 5033:2012: Installation and safety requirements for photovoltaic (PV) arrays: including Amendments 1 and 2, subject to the following modification: In clause 4.4.1.5(c), after “metallic”, insert “high density PVC”.	Cited 2012 edition of standard has been superseded. Revised standard is: AS/NZS 5033:2014 <i>Installation and safety requirements for photovoltaic (PV) arrays</i> With addition of amendments: AS/NZS 5033:2014 A1 <i>Installation and safety requirements for photovoltaic (PV) arrays: Amendment 1:2018</i> Published 29/06/2018 Incorporated AS/NZS 5033:2014 A2 <i>Installation and safety requirements for photovoltaic (PV) arrays: Amendment 2:2018</i> Published 29/06/2018 Appended	Immediate transition to most recent standard including Amendments 1 and 2

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
AS/NZS 5761	AS/NZS 5761:2011: In-service safety inspection and testing—Second-hand electrical equipment prior to sale	Cited standard is current AS/NZS 5761:2011: <i>In-service safety inspection and testing—Second-hand electrical equipment prior to sale</i>	No change
AS/NZS 5762	AS/NZS 5762:2011: In-service safety inspection and testing—Repaired electrical equipment	Cited standard is current AS/NZS 5762:2011: In-service safety inspection and testing—Repaired electrical equipment	No change
AS/NZS 7000	AS/NZS 7000:2010: Overhead line design—Detailed procedures	Cited edition of standard has been superseded. AS/NZS 7000:2016 <i>Overhead line design</i>	Immediate transition to most recent standard This standard is cited for a narrow purpose, and if a project has been started under the old rules, it can continue as such. Any new design should be subject to the latest standard.
AS/NZS 60079.0	AS/NZS 60079.0:2012: Explosive atmospheres—Part 0: Equipment—General requirements	Cited edition of standard has been superseded. AS/NZS 60079.0:2019 <i>Explosive atmospheres - Part 0: Equipment - General requirements</i>	Immediate transition to most recent standard
AS/NZS 60079.11	AS/NZS 60079.11:2011: Explosive atmospheres—Part 11: Equipment protection by intrinsic safety ‘i’	One amendment to cited edition of standard since citation: AS/NZS 60079.11:2011A1 <i>Explosive atmospheres - Part 11: Equipment protection by intrinsic safety ‘i’: Amendment 1:2013</i> Incorporated 24/04/2013	This standard is to be withdrawn as it is not referenced anywhere else throughout the regulations.
AS/NZS 60079.14	AS/NZS 60079.14:2009: Explosive	Cited edition of standard has been	Immediate transition to most recent

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
	atmospheres—Part 14: Electrical installations design, selection and erection: including Amendment 1	superseded. AS/NZS 60079.14:2017 <i>Explosive atmospheres - Part 14: Design selection, erection and initial inspection</i>	standard
AS/NZS 60079.17	AS/NZS 60079.17:2009: Explosive atmospheres—Part 17: Electrical installations inspection and maintenance: including Amendment 1	Cited edition of standard has been superseded. AS/NZS 60079.17:2017 <i>Explosive atmospheres - Part 17: Electrical installations inspection and maintenance</i>	Immediate transition to most recent standard
AS/NZS 60079.18	AS/NZS 60079.18:2011: Explosive atmospheres—Part 18: Equipment protection by encapsulation 'm'	Cited edition of standard has been superseded. AS/NZS 60079.18:2016 <i>Explosive atmospheres—Part 18: Equipment protection by encapsulation 'm'</i> Amendment 1 published 24/04/2020	This standard is to be withdrawn as it is not referenced anywhere else throughout the regulations.
AS/NZS 60079.29.2	AS/NZS 60079.29.2:2008: Explosive atmospheres—Gas detectors—Selection, installation, use, and maintenance of detectors for flammable gases and oxygen	Cited edition of standard has been superseded. AS/NZS 60079.29.2:2016 <i>Explosive atmospheres - Part 29.2: Gas detectors - Selection, installation, use and maintenance of detectors for flammable gases and oxygen</i>	Immediate transition to most recent standard
AS/NZS 60079.35.1	AS/NZS 60079.35.1:2011: Explosive atmospheres—Caplights for use in mines susceptible to firedamp—General requirements—Construction and testing in relation to the risk of explosion	Cited standard is current AS/NZS 60079.35.1:2011: Explosive atmospheres—Caplights for use in mines susceptible to firedamp—General requirements—Construction and testing in relation to the risk of	This standard is to be withdrawn. The certification scheme for caplights is laid out in Schedule 8 clause 37

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
		explosion	
AS/NZS 60950.1	AS/NZS 60950.1:2011: Information technology equipment—Safety—General requirements: including Amendment 1	<p>Cited edition of standard has been superseded.</p> <p>AS/NZS 60950.1:2015 <i>Information technology equipment - Safety - Part 1: General requirements</i></p> <p>Please note, this will in turn be superseded on 15/02/2022 by</p> <p>AS/NZS 62368.1:2018 <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i></p>	<p>Immediate transition to latest standard:</p> <p>AS/NZS 60950.1:2015 <i>Information technology equipment - Safety - Part 1: General requirements</i></p>
AS/NZS 61000.3.2	AS/NZS 61000.3.2:2007: Electromagnetic compatibility (EMC)—Limits—Limits for harmonic current emissions (equipment input current less than or equal to 16 A per phase): including Amendments 1 and 2	<p>Cited edition of standard has been superseded.</p> <p>AS/NZS 61000.3.2:2013 <i>Electromagnetic compatibility (EMC) - Part 3.2: Limits - Limits for harmonic current emissions (equipment input current less than or equal to 16 A per phase)</i></p>	Immediate transition to latest standard
AS/NZS 62013.1	AS/NZS 62013.1:2001: Caplights for use in mines susceptible to firedamp—General requirements—Construction and testing in relation to the risk of explosion	<p>Cited standard is current</p> <p>AS/NZS 62013.1:2001: Caplights for use in mines susceptible to firedamp—General requirements—Construction and testing in relation to the risk of explosion</p>	<p>This standard is to be withdrawn.</p> <p>The certification scheme for caplights is laid out in Schedule 8 clause 37</p>
BS EN 50119	BS EN 50119:2009: Railway applications—Fixed installations—Electric traction overhead contact lines	<p>One amendment to cited standard since citation.</p> <p>BS EN 50119:2009+A1:2013 <i>Railway applications—Fixed installations—Electric traction overhead contact lines including</i></p>	Immediate transition to latest standard including Amendment 1

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
		<i>Amendment 1</i> Published 31/05/2013	
BS EN 50122-1	BS EN 50122-1:2011: Railway applications—Fixed installations—Electrical safety, earthing and the return circuit. Part 1: Protective provisions against electric shock: including Amendment 1	Three further amendments to standard since citation: BS EN 50122-1:2011+A4:2017 <i>Railway applications—Fixed installations—Electrical safety, earthing and the return circuit. Part 1: Protective provisions against electric shock: including Amendment 1</i> Most recent amendment published 02/17 and replaces previous amendments	Immediate transition to latest standard including Amendment 4
BS 6164	BS 6164:2011: Code of practice for health and safety in tunnelling in the construction industry	Cited standard is current BS 6164:2011: <i>Code of practice for health and safety in tunnelling in the construction industry</i>	No change
IEC 60050	IEC 60050-826 Ed 2: International electrotechnical vocabulary—Part 826: Electrical installations	Cited standard is current IEC 60050-826 Ed 2.0 (2004) <i>International electrotechnical vocabulary—Part 826: Electrical installations</i>	No change
IEC 60079-0	IEC 60079-0 Ed 6.0 Explosive atmospheres—Equipment—General requirements	Cited edition of standard has been superseded. IEC 60079-0 Ed 7.0 (2017) <i>Explosive atmospheres - Part 0: Equipment - General requirements</i>	Immediate transition to latest standard
IEC 60079-33	IEC 60079-33 Ed 1.0 Explosive atmospheres—Equipment protection by special protection 's'	Cited standard is current IEC 60079-33 Ed 1.0 (2012) <i>Explosive atmospheres—Equipment protection by special protection 's'</i>	No change

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
IEC 60079-35-1	IEC 60079-35-1 Ed 1.0 Explosive atmospheres—Caplights for use in mines susceptible to firedamp—General requirements—Construction and testing in relation to the risk of explosion	Cited standard is current IEC 60079-35-1 Ed 1.0 (2011) <i>Explosive atmospheres—Caplights for use in mines susceptible to firedamp—General requirements—Construction and testing in relation to the risk of explosion</i>	This standard is to be withdrawn. The certification scheme for caplights is laid out in Schedule 8 clause 37
IEC 60913	IEC 60913 Ed 2.0 Railway applications—Fixed installations—Electric traction overhead contact lines	Cited standard is current IEC 60913 Ed 2.0 (2013) <i>Railway applications—Fixed installations—Electric traction overhead contact lines</i>	No change
IEC 61000-3-2	IEC 61000-3-2 Ed 3.2 b:2009: Electromagnetic compatibility (EMC)—Part 3-2: Limits—Limits for harmonic current emissions (equipment input current ≤ 16 A per phase): as amended by the deviation in AS/NZS 61000.3.2:2007: including Amendments 1 and 2	Cited edition of standard has been superseded. IEC 61000-3-2:2018 <i>Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)</i>	Immediate transition to latest standard
IEC 61000-3-3	IEC 61000-3-3 Ed 2.0:2008: Electromagnetic compatibility (EMC)—Part 3-3: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	Cited edition of standard has been superseded. IEC 61000-3-3 Ed 3.1 (2017) <i>Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection</i> Likely a revision is being worked on	Immediate transition to latest standard
IEC 61000-3-4	IEC 61000-3-4 Ed 1.0:1998: Electromagnetic compatibility (EMC)—Part 3-4: Limits—Limitation of	Cited standard is current IEC/TS 61000-3-4 Ed 1.0 (1998)	No change

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
	emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A	<i>Electromagnetic compatibility (EMC) - Part 3-4: Limits - Limitation of emission of harmonic currents in low-voltage power supply systems for equipment with rated current greater than 16 A</i>	
IEC 61000-3-11	IEC 61000-3-11 Ed 1.0:2000: Electromagnetic compatibility (EMC)—Part 3-11: Limits—Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems—Equipment with rated current ≤ 75 A and subject to conditional connection	Cited edition of standard has been superseded. IEC 61000-3-11:2017 <i>Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems - Equipment with rated current ≤ 75 A and subject to conditional connection</i>	Immediate transition to latest standard
IEC 61000-3-12	IEC 61000-3-12 Ed 2.0:2011: Electromagnetic compatibility (EMC)—Part 3-12: Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase	Cited standard is current. IEC 61000-3-12 Ed 2.0 (2011) <i>Electromagnetic compatibility (EMC)—Part 3-12: Limits—Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current >16 A and ≤ 75 A per phase</i> Work in progress on IEC 61000-3-12/AMD1 – Forecast publication date of 30/06/2021	No change
IEC 62128-1	IEC 62128-1 Ed 2.0 Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electrical shock	Cited standard is current IEC 62128-1 Ed 2.0 (2013) <i>Railway applications – Fixed installations – Electrical safety, earthing and the return circuit – Part 1: Protective provisions against electrical shock</i>	No change
IEC/TS 61000-3-5	IEC/TS 61000-3-5 Ed 2.0:2009: Electromagnetic compatibility (EMC)—	Cited standard is current	No change

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
	Part 3-5: Limits—Limitation of voltage fluctuations and flicker in low-voltage power supply systems for equipment with rated current greater than 75 A	IEC/TS 61000-3-5 Ed 2.0 (2009) <i>Electromagnetic compatibility (EMC)—Part 3-5: Limits—Limitation of voltage fluctuations and flicker in low-voltage power supply systems for equipment with rated current greater than 75 A</i>	
IEC/TS 60479-1	IEC/TS 60479-1 Ed 4.0:2005: Effects of current on human beings and livestock—Part 1: General aspects	Cited edition of standard has been superseded. IEC 60479-1 Ed 1.0 (2018) <i>Effects of current on human beings and livestock - Part 1: General aspects</i>	Immediate transition to latest standard
IEEE 1222	IEEE 1222-2011: IEEE standard for testing and performance for all-dielectric self-supporting (ADSS) fiber optic cable for use on electric utility power lines	Cited standard is current IEEE 1222-2011 IEEE standard for testing and performance for all-dielectric self-supporting (ADSS) fiber optic cable for use on electric utility power lines	No change
ISO/IEC 17050-1	ISO/IEC 17050-1 Ed 1.0:2004: Conformity assessment—Supplier's declaration of conformity—Part 1: General requirements	Cited standard is current ISO/IEC 17050-1 Ed 1.0 (2004) Conformity assessment—Supplier's declaration of conformity—Part 1: General requirements	No change
NZS 6115	NZS 6115:2006: Electrical installations—Mobile medical facilities: including Amendments 1 and 2	Cited standard is current NZS 6115:2006: <i>Electrical installations—Mobile medical facilities: including Amendments 1 and 2</i>	No change
NZS 6116	NZS 6116:2006: Safe application of electricity in the meat processing industry	Cited standard is current NZS 6116:2006: <i>Safe application of electricity in the meat processing industry</i>	No change
NZS 7901	NZS 7901:2008: Electricity and gas industries—Safety management systems for public safety	Cited edition of standard has been superseded.	Immediate transition to: NZS 7901:2014

Abbreviation used in regulations	Full title	Latest edition	Suggested change and rationale
		<p>NZS 7901:2014 <i>Electricity and gas industries – Safety management systems for public safety</i></p> <p>See also</p> <p>AS/NZS/ISO 45001:2018 <i>Occupational health and safety management systems – Requirements with guidance for use</i></p>	<p><i>Electricity and gas industries – Safety management systems for public safety</i></p> <p>Or</p> <p>AS/NZS/ISO 45001:2018 <i>Occupational health and safety management systems – Requirements with guidance for use</i></p> <p>The latter standard has been included following industry requests.</p>

Schedule 4

Wherever possible throughout schedule 4 an attempt has been made to cite only applicable international standards. This has been done to provide uniformity with an international market, and clarity across these regulations. Where necessary the applicable IEC standard is to be modified by the AS/NZS version of that standard, or the AS/NZS version is to be cited. Where citation occurs in this way, it is for safety critical reasons.

Clause 1

Household Appliances and similar

standard A means IEC 60335-1 Ed 4.2 as modified by Annex ZZ of AS/NZS 60335.1:2002, including Amendments 1 to 4

standard B means IEC 60335-1 Ed 5.0 as modified by AS/NZS 60335.1:2011

standard C means AS/NZS 60335.1:2002, including Amendments 1 to 4

standard D means AS/NZS 3350.1:2002, including Amendments 1 to 4.

Standards A, B, C and D will no longer be referenced.

All standards included in this section must, unless another edition is stated, comply with:

IEC 60335-1 Ed 5.2 (2016) *Household and similar electrical appliances - Safety - Part 1: General requirements* as modified by Annex ZZ of AS/NZS 60335.1:2011

Or

IEC 60335-1 Ed 5.1 (2013) *Household and similar electrical appliances - Safety - Part 1: General requirements* as modified by Annex ZZ of AS/NZS 60335.1:2011

This is determined by the date of the applicable standard cited below. They must also comply with the part 2 of the cited standard.

Wherever an elder version of 60335-1 is referenced, this is to be modified by Annex ZZ of AS/NZS 60335.1 that was applicable at the time.

AS/NZS 60335.1:2011 Amendment 5 will be published 28/06/2019. The text in this amendment other than that for 22.201 and Annex ANZ takes effect from 28 June 2019. The text in this amendment for 22.201 and Annex ANZ takes effect on 28 June 2021.

Type	Applicable standard	Latest edition	Suggested change and rationale
Air-cleaning appliances	Standard A, or standard B, in conjunction with IEC 60335-2-65 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-65 Ed 2.2 (2015) <i>Household and similar electrical appliances - Safety - Part 2-65:Particular requirements for air-cleaning appliances</i>	Immediate transition to latest edition
Amusement machines and personal service machines	Standard A, or standard B, in conjunction with IEC 60335-2-82 Ed 2.1 as modified by Annex ZZ of AS/NZS 60335.2.82:2006, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-82 Ed 3.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-82: Particular requirements for amusement machines and personal service machines</i>	Immediate transition to : latest edition Or IEC 60335-2-82 Ed 2.2 (2015) until 1 Jan 2022
Appliances for heating liquids	Standard A, or standard B, in conjunction with IEC 60335-2-15 Ed 5.2 as modified by Annex ZZ of AS/NZS 60335.2.15:2002, including Amendments 1 to 4	Cited edition of standard has been superseded. IEC 60335-2-15 Ed 6.2 (2018) <i>Household and similar electrical appliances - Safety - Part 2-15: Particular requirements for appliances for heating liquids</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.15:2013 including Amendments 1, 2 and 3 Or IEC 60335-2-15 Ed 6.0 (2016) as modified by Annex ZZ of AS/NZS 60335.2.15:2013 including Amendments 1, 2 and 3 until 1 Jan 2023 <i>Modification includes pressure cooker requirements, all-in-one kitchen appliance interlock requirements and glass bodied kettle mechanical requirements.</i> AS/NZS 60335.2.15:2013 Amendment 4 will be published 28/06/2021. It will take effect on 28/06/2021.

Type	Applicable standard	Latest edition	Suggested change and rationale
			Amendment 5 is proposed for publication 30/11/2021.
Appliances for skin exposure to ultraviolet and infrared radiation	Standard A, or standard B, in conjunction with IEC 60335-2-27 Ed 5.0 as modified by AS/NZS 60335.2.27:2010	Cited edition of standard has been superseded. IEC 60335-2-27 Ed 5.2 (2015) <i>Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to optical radiation</i>	Immediate transition to latest edition. Transfer this standard from household appliances to new clause 4.16 'Beauty Therapy appliances' Please see table 4.16
Appliances for skin or hair care	Standard A, or standard B, in conjunction with IEC 60335-2-23 Ed 5.2 or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-23 Ed 5.1 as modified by Annex ZZ of AS/NZS 60335.2.23:2004, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-23 Ed 6.1 (2019) <i>Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care</i>	Immediate transition to: latest edition Or IEC 60335-2-23 Ed 6.0 (2016) until 1 Jan 2024 Transfer this standard from household appliances to new clause 4.16 'Beauty Therapy appliances' Please see table 4.16
Appliances to recover and/or recycle refrigerant from air conditioning and refrigerant equipment	Standard A, or standard B, in conjunction with IEC 60335-2-104 ED 1.0	Cited standard is current IEC 60335-1 Ed 4.0 (2002), in conjunction with IEC 60335-2-104 Ed 1.0 (2003) <i>Household and similar electrical appliances - Safety - Part 2-104: Particular requirements for appliances to recover and/or recycle refrigerant from air conditioning and refrigeration equipment</i>	Immediate change to latest wording.
Automatic machines for floor treatment for commercial use	Standard B, in conjunction with IEC 60335-2-72 Ed 3.0 or Until 31/05/2016, standard A, or standard B,	Cited edition of standard has been superseded. IEC 60335-2-72 Ed 4.0 (2016)	Immediate transition to latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
	in conjunction with IEC 60335-2-72 Ed 2.1	<i>Household and similar electrical appliances - Safety - Part 2-72: Particular requirements for floor treatment machines with or without traction drive, for commercial use</i>	
Battery chargers	Standard A, or standard B, in conjunction with IEC 60335-2-29 Ed 4.2 as modified by Annex ZZ of AS/NZS 60335.2.29:2004, including Amendments 1 and 2	Cited edition of standard has been superseded. IEC 60335-2-29 Ed 5.0 (2016) <i>Household and similar electrical appliances - Safety - Part 2-29: Particular requirements for battery chargers</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.29:2017 Or IEC 60335-2-29 Ed 5.0 (2016) as modified by Annex ZZ of 60335.2.29:2017 until 1 Jan 2024 <i>Modification requires markings to specify that only the correct battery types should be used, and to be visible when charging</i>
Blankets, pads, clothing, and similar flexible heating appliances	Standard B, in conjunction with IEC 60335-2-17 Ed 3.0 as modified by AS/NZS 60335.2.17:2012 or Until 26/10/2015, standard A, or standard B, in conjunction with IEC 60335-2-17 Ed 2.2 as modified by Annex ZZ of AS/NZS 60335.2.17:2004, including Amendments 1 and 2	Cited edition of standard has been superseded. IEC 60335-2-17 Ed 3.2 (2019) <i>Household and similar electrical appliances - Safety - Part 2-17: Particular requirements for blankets, pads, clothing and similar flexible heating appliances</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.17:2012 including Amendment 1 Or IEC 60335-2-17 Ed 3.1 (2015) as modified by Annex ZZ of AS/NZS 60335.2.17:2012 including Amendment 1 until 1 Jan 2024 <i>Modification includes marking symbols.</i>
Clocks	Standard A, or standard B, in conjunction with IEC 60335-2-26 Ed 4.1	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-43 Ed 3.2 (2008) <i>Household and similar electrical appliances - Safety - Part 2-26: Particular requirements for clocks</i>	Immediate change to latest wording
Clothes dryers and towel rails	Standard A, or standard B, in conjunction with IEC 60335-2-43 Ed 3.2	Cited edition of standard has been superseded.	Immediate transition to: latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
		IEC 60335-2-43 Ed 4.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-43: Particular clothes dryers and towel rails</i>	Or IEC 60335-1 Ed 4.0 (2007) in conjunction with IEC 60335-2-43 Ed 3.2 (2008) until 1 Jan 2022
Commercial dispensing appliances and vending machines	Standard A, or standard B, in conjunction with IEC 60335-2-75 Ed 2.2 as modified by Annex ZZ of AS/NZS 60335.2.75:2005, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-75 Ed 3.2 (2018) <i>Household and similar electrical appliances - Safety - Part 2-75: Particular requirements for commercial dispensing appliances and vending machines</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.75:2013 including Amendments 1, 2 and 3 Or IEC 60335-2-75 3.1 (2015) as modified by Annex ZZ of AS/NZS 60335.2.75:2013 including Amendments 1 and 2 until 1 Jan 2023 <i>Modification voids numerous clauses in the IEC</i> AS/NZS 60335.2.75:2013 Amendment 3 published 28/06/2019. The IEC text in the Amendment will take effect on 28/06/2021.
Commercial electric appliances for keeping food and crockery warm	Standard A, or standard B, in conjunction with IEC 60335-2-49 Ed 4.1	Cited edition of standard has been superseded. IEC 60335-2-49 Ed 4.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-49: Particular requirements for commercial electric appliances for keeping food and crockery war</i>	Immediate transition to latest edition
Commercial electric bains-marie	Standard A, or standard B, in conjunction with IEC 60335-2-50 Ed 4.1	Cited edition of standard has been superseded. IEC 60335-2-50 Ed 4.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-50: Particular requirements for commercial electric bains-marie</i>	Immediate transition to latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
Commercial electric boiling pans	Standard A, or standard B, in conjunction with IEC 60335-2-47 Ed 4.1	Cited edition of standard has been superseded. IEC 60335-2-47 Ed 4.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-47: Particular requirements for commercial electric boiling pans</i>	Immediate transition to latest edition
Commercial electric cooking ranges, ovens, hobs, and hob elements	Standard A, or standard B, in conjunction with IEC 60335-2-36 Ed 5.2	Cited edition of standard has been superseded. IEC 60335-2-36 Ed 6.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-36: Particular requirements for commercial electric cooking ranges, ovens, hobs and hob elements</i>	Immediate transition to latest edition
Commercial electric deep fat fryers	Standard A, or standard B, in conjunction with IEC 60335-2-37 Ed 5.2	Cited edition of standard has been superseded. IEC 60335-2-37 Ed 6.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-37: Particular requirements for commercial electric doughnut fryers and deep fat fryers</i>	Immediate transition to latest edition
Commercial electric dishwashing machines	Standard A, or standard B, in conjunction with IEC 60335-2-58 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-58 Ed 4.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-58: Particular requirements for commercial electric dishwashing machines</i>	Immediate transition to latest edition
Commercial electric forced convection ovens, steam cookers, and steam convection ovens	Standard A, or standard B, in conjunction with IEC 60335-2-42 Ed 5.1	Cited edition of standard has been superseded. IEC 60335-2-42 Ed 5.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-42: Particular requirements for commercial electric forced convection ovens, steam cookers and steam-convection</i>	Immediate transition to latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>ovens</i>	
Commercial electric griddles and griddle grills	Standard A, or standard B, in conjunction with IEC 60335-2-38 Ed 5.1	Cited edition of standard has been superseded. IEC 60335-2-38 Ed 5.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-38: Particular requirements for commercial electric griddles and griddle grills</i>	Immediate transition to latest edition
Commercial electric grillers and toasters	Standard A, or standard B, in conjunction with IEC 60335-2-48 Ed 4.1	Cited edition of standard has been superseded. IEC 60335-2-48 Ed 4.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-48: Particular requirements for commercial electric grillers and toasters</i>	Immediate transition to latest edition
Commercial electric hoods	Standard A, or standard B, in conjunction with IEC 60335-2-99 Ed 1.0	Cited edition of standard has been superseded. IEC 60335-2-99 Ed 1.1 (2017) <i>Household and similar electrical appliances - Safety - Part 2-99: Particular requirements for commercial electric hoods</i>	Immediate transition to latest edition
Commercial electric kitchen machines	Standard A, or standard B, in conjunction with IEC 60335-2-64 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-64 Ed 3.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-64: Particular requirements for commercial electric kitchen machines</i>	Immediate transition to latest edition
Commercial electric multi-purpose cooking pans	Standard A, or standard B, in conjunction with IEC 60335-2-39 Ed 6.0 or Standard A, or standard B, in conjunction with IEC 60335-2-39 Ed.5.2	Cited edition of standard has been superseded. IEC 60335-2-39 Ed 6.1 (2017) <i>Household and similar electrical appliances - Safety - Part 2-39: Particular requirements for commercial electric multi-purpose cooking pans</i>	Immediate transition to latest edition
Commercial electric rinsing sinks	Standard A, or standard B, in conjunction	Cited standard is current	Immediate change to latest wording

Type	Applicable standard	Latest edition	Suggested change and rationale
	with IEC 60335-2-62 Ed 3.1	IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-62 Ed 3.1 (2008) <i>Household and similar electrical appliances - Safety - Part 2-62: Particular requirements for commercial electric rinsing sinks</i>	
Commercial microwave appliances with insertion or contacting applicators	New standard	IEC 60335-2-110 Ed 1.0 (2013) <i>Household and similar electrical appliances - Safety - Part 2-110: Particular requirements for commercial microwave appliances with insertion or contacting applicators</i>	Immediate adoption of new standard – this standard only came into existence in 2013 & is included to broaden the scope of this schedule in line with new technological developments.
Commercial microwave ovens	Standard A, or standard B, in conjunction with IEC 60335-2-90 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-90 Ed 4.0 (2015) <i>Household and similar electrical appliances - Safety - Part 2-90: Particular requirements for commercial microwave ovens</i>	Immediate transition to latest edition
Commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	Standard B in conjunction with IEC 60335-2-89 Ed 2.1 or Until 31/05/2015, standard A, or standard B, in conjunction with IEC 60335-2-89 Ed 2.0 as modified by AS/NZS 60335.2.89:2010, including Amendment 1	IEC 60335-2-89 Ed 2.2 (2015) <i>Household and similar electrical appliances - Safety - Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant unit or compressor</i>	Immediate transition to latest edition
Deep fat fryers, frying pans, and similar appliances	Standard B, in conjunction with IEC 60335-2-13 Ed 6.0	Cited edition of standard has been superseded. IEC 60335-2-13 Ed 6.1 (2016) <i>Household and similar electrical appliances - Safety - Part 2-13: Particular requirements for deep fat fryers, frying pans and similar appliances</i>	Immediate transition to latest edition
Dishwashers	Standard A, or standard B, in conjunction with IEC 60335-2-5 Ed 5.2 as modified by Annex ZZ of AS/NZS 60335.2.5:2002, including Amendments 1 to 3	Cited edition of standard has been superseded. IEC 60335-2-5 Ed 6.1 (2018) <i>Household and similar electrical appliances - Safety - Part 2-5: Particular requirements for</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.5:2014 including Amendments 1 and 2

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>dishwashers</i>	Or IEC 60335-1 Ed 5.0 (2011) as modified by Annex ZZ of AS/NZS 60335.2.5:2014 including Amendments 1 and 2 in conjunction with IEC 60335-2-5 Ed 6.0 (2012) to run until 1 Jan 2023 <i>Modification calls for warnings regarding the poisoning risk of associated alkaline detergents and includes a spillage test variation</i>
Drives for gates, doors, and windows	Standard A, or standard B, in conjunction with IEC 60335-2-103 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-103 Ed 3.1 (2017) <i>Household and similar electrical appliances - Safety - Part 2-103: Particular requirements for drives for gates, doors and windows</i>	Immediate transition to latest edition
Drives for rolling shutters, awnings, blinds, and similar equipment	Standard A, or standard B, in conjunction with IEC 60335-2-97 Ed 2.2	Cited edition of standard has been superseded. IEC 60335-2-97 Ed 3.0 (2016) <i>Household and similar electrical appliances - Safety - Part 2-97: Particular requirements for drives for shutters, awnings, blinds and similar equipment</i>	Immediate transition to latest edition
Drives for vertically moving garage doors for residential use	Standard B, in conjunction with IEC 60335-2-95 Ed 3.0	IEC 60335-2-95 Ed 3.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use</i>	Immediate transition to latest edition
Electric fence energisers	Standard A, or standard B, in conjunction with IEC 60335-2-76 Ed 2.2 as modified by Annex ZZ of AS/NZS 60335.2.76:2003, including Amendments 1 to 3 or Until 31/05/2015, standard A, or standard B, in conjunction with IEC 60335-2-76 Ed 2.1 as	Cited edition of standard has been superseded. IEC 60335-2-76 Ed 3.0 (2018) <i>Household and similar electrical appliances - Safety - Part 2-76: Particular requirements for electric fence energizers</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.76:2019 including Amendments 1 to 4 Or

Type	Applicable standard	Latest edition	Suggested change and rationale
	modified by Annex ZZ of AS/NZS 60335.2.76:2003, including Amendments 1 to 3		IEC 60335-2-76 Ed 2.2 (2013) as modified by Annex ZZ of AS/NZS 60335.2.76:2003 including Amendments 1 to 4 to run until 1 Jan 2023 <i>Modification allows for a variation in output limits.</i>
Electric fishing machines	Standard A, or standard B, in conjunction with IEC 60335-2-86 Ed 2.2 or Until 31/05/2015, standard A, or standard B, in conjunction with IEC 60335-2-86 Ed 2.1 as modified by Annex ZZ of AS/NZS 60335.2.86:2002, including Amendments 1 to 4	Cited edition of standard has been superseded. IEC 60335-2-86 Ed 3.0 (2018) <i>Household and similar electrical appliances - Safety - Part 2-86: Particular requirements for electric fishing machines</i>	Immediate transition to: latest edition Or IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-86 Ed 2.2 (2012) to run until 1 Jan 2023 AS/NZS 60335.2.76:2019 published by 28/06/2019. It is identical to IEC 60335-2-86 Ed 3.0 (2018)
Electric irons	Standard B, in conjunction with IEC 60335-2-3 Ed 6.0 or Until 26/10/2015, standard A, or standard B, in conjunction with IEC 60335-2-3 Ed 5.2	Cited edition of standard has been superseded. IEC 60335-2-3 Ed 6.1 (2015) <i>Household and similar electrical appliances - Safety - Part 2-3:Particular requirements for electric irons</i>	Immediate transition to latest edition
Electric ondal mattress with a non-flexible heated part	New standard	IEC 60335-2-111 Ed 1.0 (2015) <i>Household and similar electrical appliances - Safety - Part 2-111: Particular requirements for electric ondol mattress with a non-flexible heated part</i>	Immediate adoption of new standard – standard only came into existence in 2015
Electrical animal-stunning equipment	Standard A, or standard B, in conjunction with IEC 60335-2-87 Ed 2.2 or Until 31/05/2015, standard A, or standard B,	Cited edition of standard has been superseded. IEC 60335-2-87 Ed 3.1 (2018)	Immediate transition to: latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
	in conjunction with IEC 60335-2-87 Ed 2.1	<i>Household and similar electrical appliances - Safety - Part 2-87: Particular requirements for electrical animal stunning equipment</i>	Or IEC 60335-2-87 Ed 3.0 (2016) to run until 1 Jan 2023 AS/NZS 60335.2.87:2019 published by 28/06/2019. It is identical to IEC 60335-2-87 Ed 3.1 (2018)
Electrical appliances for use with aquariums and garden ponds	Standard A, or Standard B in conjunction with IEC 60335-2-55 Ed 3.1 as modified by Annex ZZ of AS/NZS 60335.2.55:2011	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-55 Ed 3.1 (2008) <i>Household and similar electrical appliances - Safety - Part 2-55: Particular requirements for electrical appliances for use with aquariums and garden ponds</i>	Change of wording: IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-55 Ed 3.1 (2008) as modified by Annex ZZ of 60335.2.55:2011 <i>Modifications address the composition of supply cords.</i>
Electrical equipment for spa and swimming pools	AS/NZS 3136:2001, including Amendments 1 and 2	Cited edition of standard has been superseded IEC 60335-2-60 4.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas</i>	Immediate transition to latest IEC standard only. This standard has been removed from low-voltage equipment and placed into Household appliances. This is in keeping with the rest of the IEC 60335 series.
Electrical heat pumps, air conditioners, and dehumidifiers	Standard A, or standard B, in conjunction with IEC 60335-2-40 Ed 4.2	Cited edition of standard has been superseded. IEC 60335-2-40 Ed 6.0 (2018) <i>Household and similar electrical appliances - Safety - Part 2-40: Particular requirements for electrical heat pumps, air-conditioners and dehumidifiers</i>	Immediate transition to: latest edition Or IEC 60335-2-40 Ed 5.1 (2016) to run until 1 Jan 2023 AS/NZS 60335.2.40:2019 published by 28/06/2019. It is identical to IEC-2-40 Ed 6.0 (2018)
Electrical heat pumps, air conditioners, and dehumidifiers using flammable refrigerants		IEC 60335-2-40 Ed 6.0 (2018) <i>Household and similar electrical appliances - Safety - Part 2-40: Particular requirements</i>	Immediate adoption of new standard – latest edition only with immediate effect to address issues of flammable refrigerants

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>for electrical heat pumps, air-conditioners and dehumidifiers</i>	
Electrolysers	Standard A, or Standard B, in conjunction with IEC 60335-2-108 Ed 1.0 as modified by Annex ZZ of AS/NZS 60335.2.108:2008	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-108 Ed 1.0 (2008) <i>Household and similar electrical appliances - Safety - Part 2-108: Particular requirements for electrolysers</i>	No change. IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-108 Ed 1.0 (2008) as modified by Annex ZZ of AS/NZS 60335.2.108:2008 <i>Modification addresses issue with class 0 products</i>
Fabric steamers	Standard A, or standard B, in conjunction with IEC 60335-2-85 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-85 Ed 2.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-85: Particular requirements for fabric steamers</i>	Immediate transition to latest edition
Fans	Standard A, or standard B, in conjunction with IEC 60335-2-80 Ed 2.2 as modified by Annex ZZ of AS/NZS 60335.2.80:2004, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-80 Ed 3.0 (2015) <i>Household and similar electrical appliances – Safety – Part 2-80: Particular requirements for fans</i>	Immediate transition to latest edition as modified by Annex ZZ of AS/NZS 60335.2.80:2016 <i>Modification determines minimum height requirement for fans mounted at a high level.</i>
Fixed immersion heaters	Standard A, or standard B, in conjunction with IEC 60335-2-73 Ed 2.2	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-73 Ed 2.2 (2009) <i>Household and similar electrical appliances - Safety - Part 2-73: Particular requirements for fixed immersion heaters</i>	Immediate transition to latest wording
Flexible sheet heating elements for room heating	Standard A, or standard B, in conjunction with IEC 60335-2-96 Ed 1.2	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-96 Ed 1.2 (2009) <i>Household and similar electrical appliances - Safety - Part 2-96: Particular requirements for flexible sheet heating elements for room heating</i>	Immediate transition to latest wording

Type	Applicable standard	Latest edition	Suggested change and rationale
Floor treatment and floor cleaning machines, for commercial use	Standard B in conjunction with IEC 60335-2-67 Ed 4.0 or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-67 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-67 Ed 4.1 (2016) <i>Household and similar electrical appliances - Safety - Part 2-67: Particular requirements for floor treatment machines, for commercial use</i>	Immediate transition to latest edition
Floor treatment machines and wet scrubbing machines	Standard A, or standard B, in conjunction with IEC 60335-2-10 Ed 5.2 or Until 31/05/2014, standard A, or standard B, in conjunction with IEC 60335-2-16 Ed 5.1	Cited standard edition incorrect IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-10 Ed 5.1 (2008) <i>Household and similar electrical appliances - Safety - Part 2-10: Particular requirements for floor treatment machines and wet scrubbing machines</i>	Immediate transition to latest edition
Food waste disposers	Standard A, or standard B, in conjunction with IEC 60335-2-16 Ed 5.1	Cited edition of standard has been superseded. IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-16 Ed 5.2 (2012) <i>Household and similar electrical appliances - Safety - Part 2-16: Particular requirements for food waste disposers</i>	Immediate transition to latest edition
Foot warmers and heating mats	Standard B in conjunction with IEC 60335-2-81 Ed 2.2 or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-81 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-81 Ed 3.1 (2017) <i>Household and similar electrical appliances - Safety - Part 2-81: Particular requirements for foot warmers and heating mats</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.81:2015 including Amendments 1 and 2 Or IEC 60335-2-81 Ed 3.0 (2015) as modified by Annex ZZ of AS/NZS 60335.2.81:2015 including Amendments 1 and 2 to run until 1 Jan 2022 <i>Modification includes requirements for</i>

Type	Applicable standard	Latest edition	Suggested change and rationale
			<i>electric hot water bottles</i>
Gas, oil, and solid-fuel burning appliances with electrical connections	Standard B, in conjunction with IEC 60335-2-102 Ed 1.1 as modified by Annex ZZ of AS/NZS 60335.2.102:2004, including Amendments 1 and 2	Cited edition of standard has been superseded. IEC 60335-2-102 Ed 2.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-102: Particular requirements for gas, oil and solid-fuel burning appliances having electrical connections</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.102:2018 Or IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-102 Ed 1.2 (2012) as modified by Annex ZZ of AS/NZS 60335.2.102:2013 to run until 1 Jan 2022 <i>Modification concerns software for automatic gas burner control systems and solid fuel burning appliances including a fan.</i>
Grills, toasters, and similar portable cooking appliances	Standard A, or standard B, in conjunction with IEC 60335-2-9 Ed 6.0 as modified by Annex ZZ of AS/NZS 60335.2.9:2009, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-9 Ed 6.2 (2016) <i>Household and similar electrical appliances - Safety - Part 2-9: Particular requirements for grills, toasters and similar portable cooking appliances</i>	Immediate transition to: latest edition as modified by Annex ZZ of AS/NZS 60335.2.9:2014 including Amendments 1, 2 and 3 Or IEC 60335-2-9 Ed 6.1 (2013) as modified by Annex ZZ of AS/NZS 60335.2.9:2014 including Amendments 1, 2 and 3 until 1 Jan 2021 <i>Modification includes requirement for toasters to switch off automatically even if the toast carriage is jammed, hob testing variations and additional warnings.</i>
Hand-held mains-operated garden blowers, vacuums, and blower vacuums	Standard A, or standard B, in conjunction with IEC 60335-2-100 Ed 1.0 as modified by Annex ZZ of AS/NZS 60335.2.100:2003	Cited standard is current IEC 60335-1 Ed 4.0 (2002) in conjunction with IEC 60335-2-100 Ed 1.0 (2002) <i>Household and similar electrical appliances - Safety - Part 2-100: Particular requirements</i>	Immediate transition to latest wording

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>for hand-held mains-operated garden blowers, vacuums and blower vacuums</i>	
Heated carpets and underfloor heating appliances	Standard A, or standard B, in conjunction with IEC 60335-2-106 Ed 1.0	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-106 Ed 1.0 (2007) <i>Household and similar electrical appliances - Safety - Part 2-106: Particular requirements for heated carpets and for heating units for room heating installed under removable floor coverings</i>	Immediate transition to latest wording
Heated gullies for roof drainage	Standard A, or standard B, in conjunction with IEC 60335-2-83 Ed 1.0 (2007)	Cited edition of standard has been superseded. IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-83 Ed 1.1 (2008) <i>Household and similar electrical appliances - Safety - Part 2-83: Particular requirements for heated gullies for roof drainage</i>	Immediate transition to latest edition
Heating appliances for breeding and rearing animals	Standard A, or standard B, in conjunction with IEC 60335-2-71 Ed 2.2 Or Until 31/05/2015, standard A, or standard B, in conjunction with IEC 60335-2-71 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-71 Ed 3.0 (2018) <i>Household and similar electrical appliances - Safety - Part 2-71: Particular requirements for electrical heating appliances for breeding and rearing animals</i>	Immediate transition to latest edition
High pressure cleaners and steam cleaners	Standard B, in conjunction with IEC 60335-2-79 Ed 3.0 Or Until 26/10/2015, standard A, or standard B, in conjunction with IEC 60335-2-79 Ed 2.2	Cited edition of standard has been superseded. IEC 60335-2-79 Ed 4.0 (2016) <i>Household and similar electrical appliances - Safety - Part 2-79: Particular requirements for high pressure cleaners and steam cleaners</i>	Immediate transition to latest edition
Humidifiers	Standard A, or standard B, in conjunction with IEC 60335-2-98 Ed 2.2	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-98 Ed 2.2 (2008)	Immediate transition to latest wording

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Household and similar electrical appliances - Safety - Part 2-98: Particular requirements for humidifiers</i>	
Humidifiers intended for use with heating, ventilation, or air-conditioning systems	Standard A, or standard B, in conjunction with IEC 60335-2-88 Ed 2.0	Cited standard is current IEC 60335-1 Ed 4.0 (2002) in conjunction with IEC 60335-2-88 Ed 2.0 (2002) <i>Household and similar electrical appliances - Safety - Part 2-88: Particular requirements for humidifiers intended for use with heating, ventilation, or air-conditioning systems</i>	Immediate transition to latest wording
Insect killers	Standard A, or standard B, in conjunction with IEC 60335-2-59 Ed 3.2 as modified by Annex ZZ of AS/NZS 60335.2.59:2005, including Amendments 1 to 3	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-59 Ed 3.2 (2009) <i>Household and similar electrical appliances - Safety - Part 2-59: Particular requirements for insect killers</i>	Immediate change to the following wording: IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-59 Ed 3.2 (2009) as modified by Annex ZZ of AS/NZS 60335.2.59:2005 including Amendments 1 to 3 <i>Modification affects construction, specifically voltage measurements after disconnection.</i>
Instantaneous water heaters	Standard A, or standard B, in conjunction with IEC 60335-2-35 Ed 4.2	Cited edition of standard has been superseded. IEC 60335-2-35 Ed 5.1 (2016) <i>Household and similar electrical appliances - Safety - Part 2-35: Particular requirements for instantaneous water heaters</i>	Immediate transition to latest edition
Ironers	Standard B, in conjunction with IEC 60335-2-44 Ed 3.2 or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-44 Ed 3.1	Cited standard is current IEC 60335-2-44 Ed 3.2 (2012) <i>Household and similar electrical appliances - Safety - Part 2-44: Particular requirements for ironers</i> No change	No change – references to standards A and B to be removed
Kitchen machines	Standard B, in conjunction with IEC 60335-2-14 Ed 5.1 as modified by Annex ZZ of AS/NZS 60335.2.14:2007, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-14 Ed 6.1 (2019)	Immediate transition to: latest IEC edition as modified by Annex ZZ of AS/NZS 60335.2.14:2017

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Household and similar electrical appliances - Safety - Part 2-14: Particular requirements for kitchen machines</i>	Or IEC 60335-2-14 Ed 6.0 (2016) as modified by Annex ZZ of AS/NZS 60335.2.14:2017 to run until 1 Jan 2024 <i>Modification bans class 0 products</i>
Massage appliances	Standard A, or standard B, in conjunction with IEC 60335-2-32 Ed 4.1	Cited edition of standard has been superseded. IEC 60335-2-32 Ed 4.2 (2013) <i>Household and similar electrical appliances - Safety - Part 2-32:Particular requirements for massage appliances</i>	Immediate transition to latest edition
Microwave ovens, including combination microwave ovens	Standard A, or standard B, in conjunction with IEC 60335-2-25 Ed 6.0 or Until 29/04/2014, standard C in conjunction with IEC 60335-2-25 Ed 5.2	Cited edition of standard has been superseded. IEC 60335-2-25 Ed 6.2 (2015) <i>Household and similar electrical appliances - Safety - Part 2-25: Particular requirements for microwave ovens, including combination microwave ovens</i>	Immediate transition to latest edition
Milking machines	Standard A or standard B, in conjunction with IEC 60335-2-70 Ed 2.2 or Until 06/03/2015, standard A, or standard B, in conjunction with IEC 60335-2-70 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-70 Ed 2.2 (2013) <i>Household and similar electrical appliances - Safety - Part 2-70:Particular requirements for milking machines</i>	Immediate transition to latest edition
Motor-compressors	Standard B, in conjunction with IEC 60335-2-34 Ed 5.0 or Until 31/05/2016, standard A, or standard B, in conjunction with IEC 60335-2-34 Ed 4.2	Cited edition of standard has been superseded. IEC 60335-2-34 Ed 5.2 (2016) <i>Household and similar electrical appliances - Safety - Part 2-34:Particular requirements for motor-compressors</i>	Immediate transition to latest edition
Multifunctional shower cabinets	Standard A, or standard B, in conjunction	Cited edition of standard has been	Immediate transition to latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
	with IEC 60335-2-105 Ed 1.1	superseded. IEC 60335-2-105 Ed 2.0 (2016) <i>Household and similar electrical appliances - Safety - Part 2-105: Particular requirements for multifunctional shower cabinets</i>	
Oral hygiene appliances	Standard A, or standard B, in conjunction with IEC 60335-2-52 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-52 Ed 3.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-52: Particular requirements for oral hygiene appliances</i>	Immediate transition to latest edition
Outdoor barbecues	Standard A, or standard B, in conjunction with IEC 60335-2-78 Ed 2.1 as modified by Annex ZZ of AS/NZS 60335.2.78:2005, including Amendments 1 and 2	Cited edition of standard has been superseded. IEC 60335-2-78 Ed 2.2 (2019) <i>Household and similar electrical appliances - Safety - Part 2-78: Particular requirements for outdoor barbecues</i>	Immediate transition to latest edition as modified by Annex ZZ of AS/NZS 60335.2.78:2005 including Amendments 1 and 2 <i>Modification affects appliances intended for permanent connection to fixed wiring.</i> Proposed revision of AS/NZS 60335.2.78:2005 on 30/11/2019. This was circulated to combined procedure as AS/NZS 60335.2.78:2005 Amendment 3.
Pedestrian-controlled mains-operated lawn scarifiers and aerators	Standard A, or standard B, in conjunction with IEC 60335-2-92 Ed 2.0	Cited standard is current IEC 60335-1 Ed 4.0 (2002) in conjunction with IEC 60335-2-92 Ed 2.0 (2002) <i>Household and similar electrical appliances - Safety - Part 2-92: Particular requirements for pedestrian-controlled mains-operated lawn scarifiers and aerators</i>	Immediate transition to latest wording
Pedestrian-controlled mains-operated lawnmowers	Standard A, or standard B, in conjunction with IEC 60335-2-77 Ed 2.0	Cited standard is current IEC 60335-1 Ed 4.0(2002) in conjunction with IEC 60335-2-77 Ed 2.0 (2002) <i>Household and similar electrical appliances - Safety - Part 2-77: Particular requirements</i>	Immediate transition to latest wording

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>for pedestrian controlled mains-operated lawnmowers</i>	
Portable heating tools and similar appliances	Standard A, or standard B, in conjunction with IEC 60335-2-45 Ed 3.1 Or Until 26/11/2014, standard A, or standard B, in conjunction with IEC 60335-2-45 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-45 Ed 3.2 (2012) <i>Household and similar electrical appliances - Safety - Part 2-45: Particular requirements for portable heating tools and similar appliances</i>	Immediate transition to latest edition
Portable immersion heaters	Standard A, or standard B, in conjunction with IEC 60335-2-74 Ed 2.2	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-74 Ed 2.2 (2009) <i>Household and similar electrical appliances - Safety - Part 2-74: Particular requirements for portable immersion heaters</i>	Immediate transition to latest wording
Projectors and similar appliances	Standard A, or standard B, in conjunction with IEC 60335-2-56 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-56 Ed 3.2 (2014) <i>Household and similar electrical appliances - Safety - Part 2-56: Particular requirements for projectors and similar appliances</i>	Immediate transition to latest edition
Pumps	Standard A, or standard B, in conjunction with IEC 60335-2-41 Ed 3.2 as modified by Annex ZZ of AS/NZS 60335.2.41:2004, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-41 Ed 4.0 (2012) <i>Household and similar electrical appliances - Safety - Part 2-41: Particular requirements for pumps</i>	Immediate transition to latest edition as modified by Annex ZZ of AS/NZS 60335.2.41 <i>Modification requires the legibility of markings on pumps intended for outdoor use to be unaffected by UV light.</i>
Range hoods and other cooking fume extractors	Standard A, or standard B, in conjunction with IEC 60335-2-31 Ed 4.2 as modified by Annex ZZ of AS/NZS 60335.2.31:2004, including Amendments 1 to 4	Cited edition of standard has been superseded. IEC 60335-2-31 Ed 5.2 (2018) <i>Household and similar electrical appliances - Safety - Part 2-31: Particular requirements</i>	Immediate transition to: latest edition as modified by Annex ZZ of 60335.2.31:2013 including Amendments 1 and 2

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>for range hoods and other cooking fume extractors</i>	Or IEC 60335-2-31 Ed 5.1 (2016) by Annex ZZ of 60335.2.31:2013 including Amendments 1 and 2 until 1 Jan 2023 <i>Modification addresses requirements concerning combustible materials & allows for Australian approved range hoods.</i> AS/NZS 60335.2.31:2013 Amendment 3 published 28/06/2019. The IEC text and National Variations will take effect on 28/06/2021
Refrigerating appliances, ice-cream appliances, and ice-makers	Standard A, or standard B, in conjunction with IEC 60335-2-24 Ed 7.1 as modified by Annex ZZ of AS/NZS 60335.2.24:2010 including Amendment 1 Or Until 30/05/2015, Standard A, or standard B, in conjunction with IEC 60335-2-24 Ed 7.0 as modified by Annex ZZ of AS/NZS 60335.2.24:2010	Cited edition of standard has been superseded. IEC 60335-2-24 Ed 7.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers</i>	Immediate transition to: latest edition as modified by Annex ZZ of 60335.2.24:2010 including Amendments 1 and 2 Or IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-24 Ed 7.0 (2012) as modified by Annex ZZ of 60335.2.24:2010 including Amendments 1 and 2 to run until 1 Jan 2022 <i>Modification includes tropical climate classification requirement and that thermal insulation be encased in metallic material.</i>
Refrigerating appliances, ice-cream appliances, and ice-makers using flammable refrigerants	New standard	IEC 60335-2-24 Ed 7.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-24: Particular requirements for refrigerating appliances, ice-cream appliances and ice makers</i>	Immediate adoption of new standard as modified by Annex ZZ of AS/NZS 60335.2.24:2010 including Amendments 1 and 2 – latest edition only to address issues of flammable refrigerants
Robotic battery powered electrical lawnmowers	New standard	IEC 60335-2-107 Ed 2.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-107: Particular requirements for robotic battery powered electrical</i>	Immediate adoption of new standard – standard only came into existence in 2012 and broadens the scope of this schedule in line with technological developments

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>lawnmowers</i>	
Room heaters	Standard A, or standard B, in conjunction with IEC 60335-2-30 Ed 4.2 as modified by Annex ZZ of AS/NZS 60335.2.30:2009, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-30 Ed 5.1 (2016) <i>Household and similar electrical appliances - Safety -Part 2-30:Particular requirements for room heaters</i>	Immediate transition to latest edition as modified by Annex ZZ of 60335.2.30:2015 including Amendments 1 and 2 <i>Modification includes requirements for small plastic bodied heaters</i>
Sauna heating appliances and infrared cabins	Standard B, in conjunction with IEC 60335-2-53 Ed 4.0 Or Until 28/10/2014, standard C, in conjunction with IEC 60335-2-53 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-53 Ed 4.1 (2017) <i>Household and similar electrical appliances - Safety - Part 2-53: Particular requirements for sauna heating appliances and infrared cabins</i>	Immediate transition to: latest edition Or IEC 60335-2-53 Ed 4.0 (2011) to run until 1 Jan 2022
Scissors type grass shears	Standard A, or standard B, in conjunction with IEC 60335-2-94 Ed 3.0	Cited edition of standard is current IEC 60335-1 Ed 4.0 (2007) in conjunction with IEC 60335-2-94 Ed 3.0 (2008) <i>Household and similar electrical appliances - Safety - Part 2-94: Particular requirements for scissors type grass shears</i>	Immediate transition to latest wording
Self-balancing personal transport devices for use with batteries containing alkaline or other non-acid electrolytes		IEC 60335-2-114 Ed 1.0 (2018) <i>Household and similar electrical appliances - Safety - Part 2-114: Particular requirements for self-balancing personal transport devices for use with batteries containing alkaline or other non-acid electrolytes</i>	Immediate adoption of new standard – this standard only came into existence in 2018 and broadens the scope of this schedule in line with technological developments
Sewing machines	Standard A, or standard B, in conjunction with IEC 60335-2-28 Ed 4.1	Cited edition of standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-28 Ed 4.1 (2008) <i>Household and similar electrical appliances - Safety - Part 2-28: Particular requirements for sewing machines</i>	Immediate transition to latest wording
Shavers, hair clippers, and similar appliances	Standard A, or standard B, in conjunction with IEC 60335-2-8 Ed 5.2	Cited edition of standard has been superseded.	Immediate transition to:

Type	Applicable standard	Latest edition	Suggested change and rationale
		IEC 60335-2-8 Ed 6.2 (2018) <i>Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances</i>	latest edition Or IEC 60335-2-8 Ed 6.1 (2015) to run until 1 Jan 2023 This standards is to be moved to the Beauty Therapy Section – please see new clause 4.16 AS/NZS 60335.2.8:2013 Amendment 2 is proposed for publication 30/11/2019.
Spin extractors	Standard A, or standard B, in conjunction with IEC 60335-2-4 Ed 6.0	Cited edition of standard has been superseded. IEC 60335-2-4 Ed 6.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-4: Particular requirements for spin extractors</i>	Immediate transition to latest edition
Spray extraction appliances, for commercial use	Standard B, in conjunction with IEC 60335-2-68 Ed 4.0 Or Until 31/05/2016, standard A, or standard B, in conjunction with IEC 60335-2-68 Ed 3.2	Cited edition of standard has been superseded. IEC 60335-2-68 Ed 4.1 (2016) <i>Household and similar electrical appliances - Safety - Part 2-68: Particular requirements for spray extraction machines, for commercial use</i>	Immediate transition to latest edition
Stationary circulation pumps for heating and service water installations	Standard B, in conjunction with IEC 60335-2-51 Ed 3.2 Or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-51 Ed 3.1	Cited edition of standard has been superseded. IEC 60335-2-51 Ed 4.0 (2019) <i>Household and similar electrical appliances - Safety - Part 2-51: Particular requirements for stationary circulation pumps for heating and service water installations</i>	Immediate transition to: latest edition Or IEC 60335-1 Ed 5.0 (2011) in conjunction with IEC 60335-2-51 Ed 3.2 (2012) until 1 Jan 2024
Stationary cooking ranges, hobs, ovens, and similar appliances	Standard A, or standard B, in conjunction with IEC 60335-2-6 Ed 5.2 as modified by	Cited edition of standard has been superseded.	Immediate transition to:

Type	Applicable standard	Latest edition	Suggested change and rationale
	Annex ZZ of AS/NZS 60335.2.6:2008, including Amendments 1 and 4	IEC 60335-2-6 Ed 6.1 (2018) <i>Household and similar electrical appliances - Safety - Part 2-6: Particular requirements for stationary cooking ranges, hobs, ovens and similar appliances</i>	latest edition as modified by Annex ZZ of AS/NZS 60335.2.6:2014 including Amendment 1 Or IEC 60335-2-6 Ed 6.0 (2014) until 1 Jan 2023 as modified by Annex ZZ of AS/NZS 60335.2.6:2014 Including Amendment 1 <i>Modification includes a Hob temperature warning and special plug requirements.</i> AS/NZS 60335.2.6:2014 Amendment 2 published 28/06/2019. The IEC text in this amendment takes effect on 28 June 2021.
Storage water heaters	Standard A, or standard B, in conjunction with IEC 60335-2-21 Ed 5.2 as modified by Annex ZZ of AS/NZS 60335.2.21:2002, including Amendments 1 to 3	Cited edition of standard has been superseded. IEC 60335-2-21 Ed 6.1 (2018) <i>Household and similar electrical appliances - Safety - Part 2-21: Particular requirements for storage water heaters</i>	Immediate transition to : latest IEC edition as modified by Annex ZZ of AS/NZS 60335.2.21:2013 including Amendment 1 Or IEC 60335-2-21 Ed 6.0 (2013) as modified by Annex ZZ of AS/NZS 60335.2.21:2013 including Amendment 1 until 1 Jan 2023 <i>Modification includes variations to instructions and testing.</i> AS/NZS 60335.2.21:2013 Amendment 2 will be published 28/06/2019. The IEC text in the Amendment will take effect on 28/06/2021.
Surface-cleaning appliances for household use employing liquids or steam	Standard A, or standard B, in conjunction with IEC 60335-2-54 Ed 4.0	Cited edition of standard has been superseded. IEC 60335-2-54 Ed 4.2 (2019)	Immediate transition to : latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Household and similar electrical appliances - Safety - Part 2-54: Particular requirements for surface-cleaning appliances for household use employing liquids or steam</i>	Or IEC 60335-2-54 Ed 4.1 (2015) until 1 Jan 2024
Thermal storage room heaters	Standard A, or standard B, in conjunction with IEC 60335-2-61 Ed 2.2	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-61 Ed 2.2 (2009) <i>Household and similar electrical appliances - Safety - Part 2-61: Particular requirements for thermal storage room heaters</i>	Immediate transition to latest wording
Toilets	Standard A, or standard B, in conjunction with IEC 60335-2-84 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-84 Ed 2.2 (2013) <i>Household and similar electrical appliances - Safety - Part 2-84: Particular requirements for toilet appliances</i>	Immediate transition to latest edition
Tumble dryers	Standard A, or standard B, in conjunction with IEC 60335-2-11 Ed 7.0 as modified by Annex ZZ of AS/NZS 60335.2.11:2009, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-11 Ed 8.0 (2019) <i>Household and similar electrical appliances - Safety - Part 2-11: Particular requirements for tumble dryers</i>	Immediate transition to : latest edition as modified by Annex ZZ of AS/NZS 60335.2.11:2017 Or IEC 60335-2-11 Ed 7.0 (2015) as modified by Annex ZZ of AS/NZS 60335.2.11:2017 until 1 Jan 2024 <i>Modification requires lint filter to be upright regardless of dryer mounting position, oily clothes warning, risk of fire/flammable materials labelling symbol.</i>
UV radiation water treatment appliances	Standard B, in conjunction with IEC 60335-2-109 Ed 1.0	Cited edition of standard has been superseded. IEC 60335-2-109 Ed 1.2 (2016) <i>Household and similar electrical appliances -</i>	Immediate transition to latest edition

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Safety - Part 2-109: Particular requirements for UV radiation water treatment appliances</i>	
Vacuum cleaners and water-suction cleaning devices	Standard A, or standard B, in conjunction with IEC 60335-2-2 Ed 6.0 as modified by AS/NZS 60335.2.2:2010, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-2 Ed 6.2 (2016) <i>Household and similar electrical appliances - Safety - Part 2-2: Particular requirements for vacuum cleaners and water-suction cleaning appliances</i>	Immediate transition to latest IEC edition as modified by annex ZZ of AS/NZS 60335.2.2:2018 <i>Modification bans class 0 items and addresses Low Voltage connect issues for motorised powerheads</i>
Vaporisers	Standard A, or standard B, in conjunction with IEC 60335-2-101 Ed 1.1	Cited edition of standard has been superseded. IEC 60335-2-101 Ed 1.2 (2014) <i>Household and similar electrical appliances - Safety - Part 2-101:Particular requirements for vaporizers</i>	Immediate transition to latest edition
Walk-behind and hand-held lawn trimmers and lawn edge trimmers	Standard A, or standard B, in conjunction with IEC 60335-2-91 Ed 3.0 as modified by AS/NZS 60335.2.91:2008, including Amendment 1	Cited standard is current IEC 60335-1 Ed 4.2 (2006) in conjunction with IEC 60335-2-91 Ed 3.0 (2008) <i>Household and similar electrical appliances - Safety - Part 2-91: Particular requirements for walk-behind and hand-held lawn trimmers and lawn edge trimmers</i>	Immediate transition to latest wording
Warming plates and similar appliances	Standard A, or standard B, in conjunction with IEC 60335-2-12 Ed 5.1	Cited edition of standard has been superseded. IEC 60335-2-12 Ed 5.2 (2017) <i>Household and similar electrical appliances - Safety - Part 2-12: Particular requirements for warming plates and similar appliances</i>	Immediate transition to latest edition
Washing machines	Standard B, in conjunction with IEC 60335-2-7 Ed 7.1 or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-7 Ed 7.0	Cited edition of standard has been superseded. IEC 60335-2-7 Ed 7.2 (2016) <i>Household and similar electrical appliances - Safety - Part 2-7:Particular requirements for washing machines</i>	Immediate transition to latest IEC edition as modified by Annex ZZ of AS/NZS 60335.2.7:2012 including Amendments 1 and 2 <i>Modification relates to a spillage test variation.</i>

Type	Applicable standard	Latest edition	Suggested change and rationale
Water-bed heaters	Standard B, in conjunction with IEC 60335-2-66 Ed 2.1	Cited edition of standard has been superseded. IEC 60335-2-66 Ed 2.2 (2012) <i>Household and similar electrical appliances - Safety - Part 2-66: Particular requirements for water-bed heaters</i>	Immediate transition to latest edition
Wet and dry vacuum cleaners, including power brush, for commercial use	Standard B, in conjunction with IEC 60335-2-69 Ed 4.0 as modified by Annex ZZ of AS/NZS 60335.2.69:2012 or Until 26/10/2015, standard A, or standard B, in conjunction with IEC 60335-2-69 Ed 3.2 as modified by Annex ZZ of AS/NZS 60335.2.69:2003, including Amendments 1 to 3	Cited edition of standard has been superseded. IEC 60335-2-69 Ed 5.0 (2016) <i>Household and similar electrical appliances - Safety - Part 2-69: Particular requirements for wet and dry vacuum cleaners, including power brush, for commercial use</i>	Immediate transition to latest edition as modified by Annex ZZ of AS/NZS 60335.2.69:2017 <i>Modifications requires appliance outlets for accessories to be loaded with a resistive load according to their marking</i>
Whirlpool baths and whirlpool spas	Standard A, or standard B, in conjunction with IEC 60335-2-60 Ed 3.2 as modified by Annex ZZ of AS/NZS 60335.2.60:2006, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-60 Ed 4.0 (2017) <i>Household and similar electrical appliances - Safety - Part 2-60: Particular requirements for whirlpool baths and whirlpool spas</i>	Immediate transition to latest edition as modified by Annex ZZ of AS/NZS 60335.2.60:2018 <i>Modifications includes multiple variations, affecting size, temperature, thermal sensing elements and testing</i>

Clause 2

Other electrical appliances

Type	Applicable standard	Latest edition	Suggested change and rationale
Electric duct heaters	AS/NZS 3102:2002, including Amendments 1 to 3	One revision of cited edition since citation AS/NZS 3102:2002 <i>Approval and test specification - Electric duct heaters, including Amendments 1 to 4</i>	Immediate transition to latest standard
Electric toys	IEC 62115 Ed 1.2	Cited standard has been superseded IEC 62115 Ed 2.0 (2017) <i>Electric toys – Safety</i>	Immediate transition to latest standard
Portable inverters	AS/NZS 4763:2011	Cited standard is current AS/NZS 4763:2011 <i>Safety of portable inverters</i>	No change
Smoke detectors	AS/NZS 3100:2009, including Amendments 1 and 2	Cited standard has been superseded AS/NZS 3100:2017 <i>Approval and test specification - General requirements for electrical equipment including Amendment 3</i>	Immediate transition to latest standard AS/NZS 3100:2017 Amendment 2 published 28/06/2019. Amendment 3 published 29/11/2019. Amendment 2 applies to Contents, Preface, Section 1, Section 2, Section 3, Section 8, Annex A and Annex B. Amendment 2 takes effect on 28 June 2021

Clause 3

Low voltage electrical apparatus

Low voltage equipment other than those listed below must comply with the AS/NZS 3100 series.

Low voltage electrical apparatus	Applicable standard	Latest Edition	Suggested change and rationale
Air-break switches	AS/NZS 3133:2008, including Amendments 1 and 2	Cited edition of standard has been superseded AS/NZS 60669.1:2020 <i>Switches for household and similar fixed electrical installations - Part 1: General requirements</i> <i>See also:</i> IEC 60669-1 Ed 4.0 (2017) <i>Switches for household and similar fixed-electrical installations - Part 1: General requirements</i>	Immediate transition to: Latest AS/NZS standard published on 24/09/2020 Or Latest IEC standard
Appliance couplers for household and similar general purposes	AS/NZS 60320.1:2012 or IEC 60320-1 Ed 2.1	Cited standard is current AS/NZS 60320.1:2012 <i>Appliance couplers for household and similar general purposes – Part 1: General requirements</i> Cited standard has been superseded IEC 60320-1 Ed 3.1 (2018) <i>Appliance couplers for household and similar general purposes - Part 1: General requirements</i>	Immediate transition to: AS/NZS 60320.1:2012 Or IEC 60320-1 Ed 3.1 (2018)
Bayonet lampholder adaptors	AS 3119:1994	Cited edition of standard has been superseded AS/NZS 3119:2015 <i>Approval and test specification - Lampholder adaptors</i>	Immediate transition to latest standard
Bayonet lampholders	AS/NZS 61184:2007	Cited edition of standard has been	Immediate transition to latest IEC standard

Low voltage electrical apparatus	Applicable standard	Latest Edition	Suggested change and rationale
	or IEC 61184 Ed 3.1, including Amendment 2, as modified by AS/NZS 61184:2007 or Until 30/12/2016, AS/NZS 3117:2007	superseded IEC 61184 Ed 4.0 (2017) <i>Bayonet lampholders</i>	only
Ceiling roses	AS/NZS 3113:2005	Cited standard is current AS/NZS 3113:2005 <i>Approval and test specification - Ceiling roses</i>	No change
Cord extension sets	AS/NZS 3199:2007	Cited standard is current AS/NZS 3199:2007 <i>Approval and test specification - Cord extension sets</i>	No change
Cord extension sockets	AS/NZS 3120:2011	Cited standard is current AS/NZS 3120:2011 <i>Approval and test specification - Cord extension sockets</i>	No change
Cord-line switches	AS/NZS 3127:2005 or IEC 61058-2-1 Ed 2.0	Cited edition of standard has been superseded IEC 61058-2-1 Ed 3.0 (2018) <i>Switches for appliances - Part 2-1: Particular requirements for cord switches</i>	Immediate transition to latest IEC standard only
Edison screw lampholders	AS/NZS 60238:2007 or IEC 60238 Ed 8.2 as modified by AS/NZS 60238:2007 or Until 30/12/2016, AS/NZS 3140:2007	Cited edition of standard has been superseded IEC 60238 Ed. 9.1 (2017) <i>Edison screw lampholders</i>	Immediate transition to latest IEC standard only
Electric shaver supply units	AS/NZS 3194:1993, including Amendment 1	Cited edition of standard has been superseded AS/NZS 3194:2015 <i>Approval and test specification - Electric shaver supply units</i>	Immediate transition to latest standard
Electrical equipment of machines	IEC 60204-1 Ed 5.1	Cited edition of standard has been superseded	Immediate transition to latest IEC standard

Low voltage electrical apparatus	Applicable standard	Latest Edition	Suggested change and rationale
		IEC 60204-1 Ed 6.0 (2016) <i>Safety of machinery - Electrical equipment of machines – Part 1: General requirements</i>	
Electrical portable outlet devices & portable electrical control or conditioning devices	AS/NZS 3105:2012	Cited edition of standard has been superseded AS/NZS 3105:2014 <i>Approval and test specification - Electrical portable outlet devices</i>	Immediate transition to latest standard The title of this standard has also been modified to include portable electrical control or conditioning devices, previously a separate standard. This is because both issues are now covered by AS/NZS 3105:2014. Amendment 1 published on 1/09/2020.
Interconnection couplers for household and similar equipment	AS/NZS 60320.2.2:2004 or IEC 60320-2-2 Ed 2.0	Cited standard is current AS/NZS 60320.2.2:2004 <i>Appliance couplers for household and similar general purposes - Interconnection couplers for household and similar equipment</i>	Immediate transition to AS/NZS standard only IEC standard withdrawn 2016
Plugs and socket-outlets	AS/NZS 3112:2011, including Amendment 1	Cited edition of standard has been superseded AS/NZS 3112:2017 <i>Approval and test specification – Plugs and socket-outlets</i>	Immediate transition to latest standard
Plugs and socket-outlets for stationary appliances	AS/NZS 3131:2001	Cited edition of standard has been superseded AS/NZS 3131:2015 <i>Approval and test specification - Plugs and socket-outlets for stationary appliances</i>	Immediate transition to latest standard
Plugs, socket-outlets, and couplers for general industrial application	AS/NZS 3123:2005	Cited standard is current AS/NZS 3123:2005 <i>Approval and test specification - Plugs, socket-outlets and couplers for general industrial application</i>	No change
Plugs, socket-outlets, and couplers for	IEC 60309-2 Ed 4.2	Cited standard is current	No change

Low voltage electrical apparatus	Applicable standard	Latest Edition	Suggested change and rationale
industrial purposes—dimensional interchangeability requirements for pin and contact-tube accessories		IEC 60309-2 Ed 4.2 (2012) <i>Plugs, socket-outlets, and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories</i>	
Plugs, socket-outlets, and couplers for industrial purposes—general requirements	IEC 60309-1 Ed 4.2	Cited standard is current IEC 60309-1 Ed 4.2 (2012) <i>Plugs, socket-outlets, and couplers for industrial purposes – Part 1: General requirements</i>	No change
Plugs, socket-outlets, and couplers for industrial purposes—switched socket-outlets and connectors with or without interlock	IEC 60309-4 Ed 1.1	Cited standard is current IEC 60309-4 Ed 1.1 (2012) <i>Plugs, socket-outlets, and couplers for industrial purposes – Part 4: Switched socket-outlets and connectors with or without interlock</i>	No change
Plugs, socket-outlets, vehicle couplers, and vehicle inlets—conductive charging of electric vehicles	IEC 62196-1 Ed 2.0	Cited edition of standard has been superseded IEC 62196-1 Ed. 3.0 (2014) <i>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements</i>	Withdraw standard from this section – to be included in clause 17 – Electric vehicles
Portable electrical control or conditioning devices	AS/NZS 3197:2005, including Amendments 1 and 2	AS/NZS 3105:2014 Approval and test specification – Electrical portable outlet devices	Withdraw this standard – see Electrical portable outlet devices & Portable electrical control or conditioning devices above.
Sewing machine couplers	AS/NZS 60320.2.1:2004 or IEC 60320-2-1 Ed 2.0	Cited edition of standard has been superseded IEC 60320-2-1 Ed3.0 (2018) <i>Appliance couplers for household and similar general purposes - Part 2-1: Sewing machine couplers</i>	Transition to: latest IEC standard Or IEC 60320-2-1 Ed 2.0 until 01/01/2021 (as AS/NZS 60320.2.1:2004 was reconfirmed in 2016)

Low voltage electrical apparatus	Applicable standard	Latest Edition	Suggested change and rationale
Socket-outlet adaptors	AS/NZS 3122:2005	Cited edition of standard has been superseded AS/NZS 3122:2015 <i>Approval and test specification - Socket-outlet adaptors</i>	Immediate transition to latest standard
Temperature sensing controls	IEC 60730-2-9 Ed 3.1	Cited edition of standard has been superseded IEC 60730-2-9 Ed. 4.0 (2018) <i>Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control</i>	Immediate transition to latest standard

Clause 4

Electric wires and cables

Type	Applicable standard	Latest edition	Suggested change and rationale
Cables for high voltage luminous discharge tube installations	AS/NZS 3166:1993	Cited standard is current Reconfirmed 2016 AS/NZS 3166:1993 <i>Approval and test specification - Cables for high voltage luminous discharge tube installations</i>	No change
Electric cables—polymeric insulated—for distribution and service applications	AS/NZS 4961:2003	Cited standard is current Reconfirmed 2016 AS/NZS 4961:2003 <i>Electric cables - Polymeric insulated - For distribution and service applications</i> This standard complements standard: AS/NZS 4026:2008 (<i>Reconfirmed 2018</i>)	No change

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Electric cables - For underground residential distribution systems</i>	
Electric cables—polymeric insulated— for working voltages up to and including 0.6/1 (1.2) kV	AS/NZS 5000.1:2005, including Amendment 1	Cited standard is current Reconfirmed 2016 AS/NZS 5000.1:2005 <i>Electric cables - Polymeric insulated - For working voltages up to and including 0.6/1 (1.2) kV including Amendment 1</i>	No change
Electric cables—polymeric insulated— for working voltages up to and including 450/750 V	AS/NZS 5000.2:2006	Cited standard is current Reconfirmed 2016 AS/NZS 5000.2:2006 <i>Electric cables - Polymeric insulated - For working voltages up to and including 450/750 V</i>	No Change
Electric cables—polymeric insulated— multicore control cables	AS/NZS 5000.3:2003	Cited standard is current Reconfirmed 2016 AS/NZS 5000.3:2003 <i>Electric cables - Polymeric insulated - Multicore control cables</i>	No change
Electric flexible cords	AS/NZS 3191:2008 or IEC 60227 and IEC 60245 series	Cited standard is current AS/NZS 3191:2008 <i>Electric flexible cords</i> IEC 60227 SER <i>Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V</i> IEC 60245 SER <i>Rubber insulated cables - Rated voltages up to and including 450/750 V</i>	Transition to AS/NZS standard only with immediate effect This is to provide simplicity and clarity. Too many IEC's would need to be referenced to achieve same effect.
Heating cables with a rated voltage of 300/500 V for comfort heating and prevention of ice formation	IEC 60800 Ed 3.0	Cited standard is current IEC 60800 Ed 3.0 (2009)	No change

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Heating cables with a rated voltage of 300/500V for comfort heating and prevention of ice formation</i>	
Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V—flexible cables (cords)	AS/NZS 60227.5:2003, including Amendment 1 or IEC 60227-5 Ed 3.0	Cited IEC standard is current IEC 60227-5: Ed 3.0 (2011) <i>Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 5: Flexible cables (cords)</i>	Immediate transition to IEC standard only
Rubber insulated cables—rated voltages up to and including 450/750 V—cords and flexible cables	AS/NZS 60245.4:2003, including Amendment 1 or IEC 60245-4 Ed 3.0	Cited IEC standard is current IEC 60245-4 Ed 3.0 (2011) <i>Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 4: Cords and flexible cables</i>	Immediate transition to IEC standard only
Rubber insulated cables—rated voltages up to and including 450/750 V—cords for applications requiring high flexibility	IEC 60245-8 Ed 1.2	Cited standard is current IEC 60245-8 Ed1.2 (2012) <i>Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 8: Cords for applications requiring high flexibility</i>	No change
Rubber insulated cables—rated voltages up to and including 450/750 V—heat-resistant silicone insulated cables	IEC 60245-3 Ed 2.0, including Amendments 1 and 2	Cited standard is current IEC 60245-3 Ed 2.0 (1994) Rubber insulated cables - Rated voltages up to and including 450/750 V - Part 3: Heat resistant silicone insulated cables Incorporated A1 10/06/1997 Incorporated A1 23/09/2011	No Change

Clause 5

Switches for circuits, installation protective devices, and connection devices

In this section, where the latest edition of the IEC standard referred to is part 2 or above, the standard in question must be read in conjunction with its corresponding part 1 (i.e. the part 1 that was applicable when said standard was published).

Type	Applicable standard	Latest Edition	Proposed change and rationale
Arc fault detection devices	New standard	IEC 62606 Ed 1.1 (2017) <i>General requirements for arc fault detection devices</i>	Immediate adoption of new standard – only came into existence in 2013
Assemblies for power distribution in public networks	AS/NZS 3439.5:2001 or IEC 61439-5 Ed 1.0	Cited edition of standard has been superseded IEC 61439-5 Ed 2.0 (2014) <i>Low-voltage switchgear and controlgear assemblies - Part 5: Assemblies for power distribution in public networks</i>	Immediate transition to most recent IEC standard only.
Circuit-breakers for overcurrent protection for household and similar installations— circuit-breakers for AC operation	AS/NZS 60898.1:2004 or IEC 60898-1 Ed 1.2 as modified by AS/NZS 60898.1:2004 or AS/NZS 3111:2009, including Amendment 1	Cited edition of standard has been superseded IEC 60898-1 Ed. 2.0 (2015) <i>Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 1: Circuit-breakers for a.c. operation</i>	Immediate transition to most recent IEC standard only.
Circuit-breakers for overcurrent protection for household and similar installations— circuit-breakers for AC and DC operation	AS/NZS 60898.2:2004 or IEC 60898-2 Ed 1.1 as modified by AS/NZS 60898.2:2004	Cited edition of standard has been superseded IEC 60898-2 Ed. 2.0 (2016) <i>Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations - Part 2: Circuit-breakers for AC and DC operation</i>	Immediate transition to most recent IEC standard only.
Contactors and motor-starters—AC semiconductor controllers and contactors for non-motor loads	AS/NZS 3947.4.3:2000 or IEC 60947-4-3 Ed 1.2	Cited edition of standard has been superseded IEC 60947-4-3 Ed 2.0 (2014)	Immediate transition to most recent IEC standard only.

Type	Applicable standard	Latest Edition	Proposed change and rationale
		Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads	
Control circuit devices and switching elements—DC interface for proximity sensors and switching amplifiers (NAMUR)	AS/NZS 3947.5.6:2000 or IEC 60947-5-6 Ed 1.0	Cited IEC standard is current IEC 60947-5-6 Ed 1.0 (1999) <i>Low-voltage switchgear and controlgear - Part 5-6: Control circuit devices and switching elements - DC interface for proximity sensors and switching amplifiers (NAMUR)</i>	Immediate transition to current IEC standard only
Control circuit devices and switching elements—electrical emergency stop device with mechanical latching function	AS/NZS 3947.5.5:2000 or IEC 60947-5-5 Ed 1.1	Cited edition of standard has been superseded IEC 60947-5-5 Ed 1.2 (2016) <i>Low-voltage switchgear and controlgear - Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function</i>	Immediate transition to most recent IEC standard only.
Control circuit devices and switching elements—proximity devices with defined behaviour under fault conditions	AS/NZS 3947.5.3:2000 or IEC 60947-5-3 Ed 1.1	Cited edition of standard has been superseded IEC 60947-5-3 Ed 2.0 (2013) <i>Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDDB)</i>	Immediate transition to most recent IEC standard only.
DC isolators	New Standard	IEC 60947-3 Ed 3.2 (2015) <i>Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units</i>	New standard – this is included as its own standard due to technical developments concerning DC isolators
Electromagnetic remote-control switches (RCS)	IEC 60669-1 Ed 3.2 as modified by AS/NZS 60669.1:2013 in conjunction with IEC 60669-2-2 Ed 3.0	Cited standard is current IEC 60669-2-2 Ed 3.0 (2006) <i>Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS)</i>	Immediate transition to most recent IEC standard only.

Type	Applicable standard	Latest Edition	Proposed change and rationale
Electronic switches	IEC 60669-1 Ed 3.2 as modified by AS/NZS 60669.1:2013 in conjunction with IEC 60669-2-1 Ed 4.1 as modified by AS/NZS 60669.2.1:2013	Cited edition of standard has been superseded IEC 60669-2-1 Ed 4.2 (2015) <i>Switches for household and similar fixed electrical installations -Part 2-1: Particular requirements - Electronic switches</i>	Immediate transition to most recent IEC standard only.
Installation couplers intended for permanent connection in fixed installations	IEC 61535 Ed 1.1	Cited IEC standard is current IEC 61535 Ed 1.1 (2012) <i>Installation couplers intended for permanent connection in fixed installations</i>	No Change
Isolating switches	IEC 60669-1 Ed 3.2 as modified by AS/NZS 60669.1:2013 in conjunction with IEC 60669-2-4, Ed 1.0	Cited edition of standard is current IEC 60669-2-4 Ed 1.0 (2004) <i>Switches for household and similar fixed electrical installations - Part 2-4: Particular requirements - Isolating switches</i>	No change
Low-voltage assemblies intended to be installed in places where unskilled persons have access for their use	AS/NZS 3439.3:2002 or IEC 60439-3 Ed 1.2 as modified by AS/NZS 3439.3:2002	IEC 61439-3 Ed 1.0 (2012) <i>Low-voltage switch gear and control gear assemblies - Part 3: distribution boards intended to be operated by ordinary persons</i>	Immediate transition to most recent IEC standard only.
Low-voltage switchgear and controlgear assemblies - General rules	New Standard	IEC 61439-1 Ed 2.0 (2011) <i>Low-voltage switchgear and control gear assemblies - Part 1: General rules</i>	Immediate adoption of new standard – provides greater breadth and ensures subsequent parts compliance with this part 1. Standard is already 8 years old, no transition needed.
Low-voltage switchgear and controlgear assemblies - Power switchgear and controlgear assemblies	New standard	IEC 61439-2 Ed. 2.0 (2011) <i>Low-voltage switchgear and control gear assemblies - Power switchgear and controlgear assemblies</i>	Immediate adoption of new standard - provides greater breadth ensures subsequent parts compliance with this part 2. Standard is already 8 years old, no transition needed.
Low-voltage fuses for use by authorised persons	IEC 60269-1 Ed 4.1 in conjunction with IEC 60269-2 Ed 4.0	Cited edition of standard has been superseded IEC 60269-2 Ed 5.1 (2016)	Immediate transition to most recent standard only.

Type	Applicable standard	Latest Edition	Proposed change and rationale
		<i>Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K</i>	
Low-voltage fuses for use by unskilled persons	IEC 60269-1 Ed 4.1 in conjunction with IEC 60269-3 Ed 4.0	Cited edition of standard has been superseded IEC 60269-3 Ed 4.1 (2013) <i>Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F</i>	Immediate transition to most recent standard only.
Low-voltage switchgear and controlgears assemblies for construction sites (ACS)	AS/NZS 3439.4:2009 or IEC 60439-4 Ed 2.0	IEC 61439-4 Ed 1.0 (2012) <i>Low-voltage switchgear and controlgear assemblies – Part 4: Particular requirements for assemblies for construction sites (ACS)</i>	Immediate transition to most recent IEC standard only.
Multiple-function equipment—automatic transfer switching equipment	AS/NZS 3947.6.1:2001 or IEC 60947-6-1 Ed 2.0	Cited edition of standard has been superseded IEC 60947-6-1 Ed 2.1 (2013) <i>Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment</i>	Immediate transition to most recent IEC standard only.
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)	AS/NZS 61009.1:2011 or IEC 61009-1 Ed 3.0 as modified by AS/NZS 61009.1:2011 or AS/NZS 3190:2011	Cited edition of standard has been superseded AS/NZS 61009.1:2015 <i>Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) - Part 1: General rules</i> Or IEC 61009-1 Ed 3.2 (2013) <i>Residual current operated circuit-breakers with integral overcurrent protection for</i>	Immediate transition to latest editions as stated.

Type	Applicable standard	Latest Edition	Proposed change and rationale
		<i>household and similar uses (RCBOs) - Part 1: General rules as modified by AS/NZS 61009.1:2015</i>	
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)	AS/NZS 61008.1:2011 or IEC 61008-1 Ed 3.0 as modified by AS/NZS 61008.1:2011 or AS/NZS 3190:2011	Cited edition of standard has been superseded AS/NZS 61008.1:2015 <i>Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules</i> Or IEC 61008-1 Ed 3.2 (2013) <i>Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) - Part 1: General rules as modified by AS/NZS 61008.1:2015</i>	Immediate transition to latest editions as stated.
Switches, disconnectors, switch-disconnectors, and fuse-combination units	AS/NZS 3947.3:2001 or IEC 60947-3 Ed 3.1	Cited edition of standard has been superseded IEC 60947-3 Ed 3.2 (2015) <i>Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units</i>	Immediate transition to most recent IEC standard only.
Time-delay switches (TDS)	IEC 60669-1 Ed 3.2 as modified by AS/NZS 60669.1:2013 in conjunction with IEC 60669-2-3 Ed 3.0	Cited edition of standard is current IEC 60669-2-3 Ed 3.0 (2006) <i>Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time-delay switches (TDS)</i>	Immediate transition to most recent IEC standard only
Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses	IEC 62423 Ed 2.0	Cited IEC standard is current IEC 62423 Ed 2.0 (2009) <i>Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses</i>	No change

Type	Applicable standard	Latest Edition	Proposed change and rationale
Type-tested and partially type-tested assemblies	AS/NZS 3439.1:2002 or IEC 61439-1 Ed 2.0	IEC 61439-1 Ed 2.0 (2011) <i>Low-voltage switchgear and controlgear assemblies - Part 1: General rules</i>	Immediate transition to most recent IEC standard only

Clause 6

Hand-held Motor-operated Electric tools

Standard E means IEC 60745-1 Ed 4.0 (2006) as modified by AS/NZS 60745.1:2009

Standard F means AS/NZS 60745.1:2003, including Amendments 1 to 3.

Standard F was superseded by AS/NZS 60745.1:2009 on 18/07/2014.

References to standard E and F are to be removed.

Unless otherwise stated, all standards must comply with **either** IEC 60745-1 Ed 4.0 (2006) as modified by AS/NZS 60745.1:2009 **or** IEC 62841-1 Ed 1.0 (2014) as modified by AS/NZS 62841.1:2015, as determined by the standard cited, in conjunction with part 2 of the cited standard.

Hand-held Motor-operated electric tools	Applicable standard	Latest Edition	Suggested change and Rationale
Band saws	Standard E in conjunction with IEC 60745-2-20 Ed 1.1	Cited standard is current IEC 60745-2-20 Ed 1.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-20: Particular requirements for band saws</i>	No change
Chain saws	Standard E in conjunction with IEC 60745-2-13 Ed 2.1	Cited standard is current IEC 60745-2-13 Ed 2.1 (2011) <i>Hand-held motor-operated electric tools - Safety - Part 2-13: Particular requirements for chain saws</i> See also	Immediate transition to: IEC 60745-2-13 Ed 2.1 (2011) <i>Hand-held motor-operated electric tools - Safety - Part 2-13: Particular requirements for chain saws</i> Until 10/11/2020 as per IEC recommendation

		IEC 62841-4-1 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4.1: Particular requirements for chain saws</i>	Or IEC 62841-4-1 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4.1: Particular requirements for chain saws</i>
Circular saws	Standard E in conjunction with IEC 60745-2-5 Ed 5.0 Or Until 29/04/2014, Standard E in conjunction with IEC 60745-2-5 Ed 4.0	Cited standard is current IEC 62841-2-5 Ed 1.0 (2014) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.5: Particular requirements for hand-held circular saws</i>	Immediate transition to latest standard
Concrete vibrators	Standard E in conjunction with IEC 60745-2-12 Ed 1.0 as modified by Annex ZZ of AS/NZS 60745.2.12:2009	Cited edition of standard has been superseded IEC 60745-2-12 Ed 2.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-12: Particular requirements for concrete vibrators</i>	Immediate transition to latest standard
Cut-off machines	Standard E in conjunction with IEC 60745-2-22 Ed 1.1 as modified by Annex ZZ of AS/NZS 60745.2.22:2011	Cited standard has been superseded IEC 62841-3-10 Ed 1.0 (2015) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.10: Particular requirements for transportable cut-off machines</i>	Immediate transition to latest standard
Die grinders and small rotary tools	New standard	IEC 60745-2-23 Ed 1.0 (2012) <i>Hand-held motor-operated electric tools - Safety - Part 2-23: Particular requirements for die grinders and small rotary tools</i>	Immediate adoption of new standard – standard only came into existence in 2012 & broadens scope of this schedule in line with technological developments
Drain cleaners	Standard E in conjunction with IEC 60745-2-21 Ed 1.1	Cited standard is current IEC 60745-2-21 Ed 1.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-21: Particular requirements</i>	Immediate transition to: IEC 60745-2-21 Ed 1.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-21: Particular requirements</i>

		<p><i>for drain cleaners</i> See also</p> <p>IEC 62841-2-21 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.21: Particular requirements for hand-held drain cleaners</i></p>	<p><i>for drain cleaners</i> Until 23/05/2020 as per IEC recommendation</p> <p>Or</p> <p>IEC 62841-2-21 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.21: Particular requirements for hand-held drain cleaners</i></p>
Drills and impact drills	Standard E in conjunction with IEC 60745-2-1 Ed 2.1	<p>Cited standard has been superseded</p> <p>IEC 62841-2-1 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.1: Particular requirements for hand-held drills and impact drills</i></p>	<p>Immediate transition to:</p> <p>IEC 60745-2-1 Ed 2.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-1: Particular requirements for drills and impact drills</i> Until 22/06/2020, as per IEC recommendation</p> <p>Or</p> <p>IEC 62841-2-1 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.1: Particular requirements for hand-held drills and impact drills</i></p>
Grinders, polishers, and disk-type sanders	<p>Standard E in conjunction with IEC 60745-2-3 Ed 2.2 as modified by Annex ZZ of AS/NZS 60745.2.3:2013</p> <p>Or</p> <p>Until 31/05/2015 standard E in conjunction with IEC 60745-2-3 Ed 2.1 as modified by Annex ZZ of AS/NZS 60745:2011</p>	<p>Cited standard is current</p> <p>IEC 60745-2-3 Ed 2.2 (2012) <i>Hand-held motor-operated electric tools - Safety - Part 2-3: Particular requirements for grinders, polishers and disk-type sanders</i></p>	<p>Remove reference to outdated standard IEC 60745-2-3 Ed 2.1</p> <p>No other change</p>
Hammers	Standard E in conjunction with IEC 60745-2-6 Ed 2.2 as modified by Annex ZZ of AS/NZS 60745.2.6:2009	<p>Cited standard is current</p> <p>IEC 60745-2-6 Ed 2.2 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-6: Particular requirements for</i></p>	No change

		<i>hammers</i>	
Hedge trimmers	Standard E in conjunction with IEC 60745-2-15 Ed 2.1	<p>Cited standard is current</p> <p>IEC 60745-2-15 Ed 2.1 (2009) <i>Hand-held motor-operated electric tools - Safety - Part 2-15: Particular requirements for hedge trimmers</i></p> <p>See also</p> <p>IEC 62841-4-2 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4.2: Particular requirements for hedge trimmers</i></p>	<p>Immediate transition to:</p> <p>IEC 60745-2-15 Ed 2.1 (2009) <i>Hand-held motor-operated electric tools - Safety - Part 2-15: Particular requirements for hedge trimmers</i> Until 14/12/2020 as per IEC recommendation</p> <p>Or</p> <p>IEC 62841-4-2 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 4.2: Particular requirements for hedge trimmers</i></p>
Jointers	Standard E in conjunction with IEC 60745-2-19 Ed 1.1	<p>Cited standard is current</p> <p>IEC 60745-2-19 Ed 1.1 (2010) <i>Hand-held motor-operated electric tools - Safety - Part 2-19: Particular requirements for jointers</i></p>	No change
Mixers	New Standard	<p>IEC 62841-2-10 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.10: Particular requirements for hand-held mixers</i></p>	Immediate adoption of new standard
Other hand-held motor-operated electric tools	AS/NZS 3160:2009 including Amendments 1 and 2	<p>Cited standard is current</p> <p>AS/NZS 3160:2009 <i>Approval and test specification – Hand-held portable electric tools including amendment 1</i></p> <p>This is not subject to IEC 60745-1 Ed 4.0 (2006)</p>	<p>No change to main standard</p> <p>Previous amendments 1 and 2 have been incorporated in this revised version of standard. New Amendments have been added.</p> <p>Therefore wording to be: AS/NZS 3160:2009 <i>Approval and test specification – Hand-held</i></p>

			<i>portable electric tools including amendment 1</i>
Planers	Standard E in conjunction with IEC 60745-2-14 Ed 2.2	Cited standard has been superseded IEC 62841-2-14 Ed 1.0 (2015) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.14: Particular requirements for hand-held planers</i>	Immediate transition to latest standard
Reciprocating saws (jig and sabre saws)	Standard E in conjunction with IEC 60745-2-11 Ed 2.1	Cited standard is current IEC 60745-2-11 Ed 2.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-11: Particular requirements for reciprocating saws (jig and sabre saws)</i> See also IEC 62841-2-11 Ed 1.1 (2018) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.11: Particular requirements for hand-held reciprocating saws</i>	Immediate transition to: IEC 60745-2-11 Ed 2.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-11: Particular requirements for reciprocating saws (jig and sabre saws)</i> Until 19/01/2021 as per IEC recommendation Or IEC 62841-2-11 Ed 1.1 (2018) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.11: Particular requirements for hand-held reciprocating saws</i>
Routers and trimmers	Standard E in conjunction with IEC 60745-2-17 Ed 3.0 Or Until 29/04/2014, Standard F in conjunction with AS/NZS 60745.2.17:2003	Cited standard is current IEC 60745-2-17 Ed 3.0 (2010) <i>Hand-held motor-operated electric tools - Safety - Part 2-17: Particular requirements for routers and trimmers</i> See also IEC 62841-2-17 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.17: Particular requirements for</i>	Immediate transition to : IEC 60745-2-17 Ed 3.0 (2010) <i>Hand-held motor-operated electric tools - Safety - Part 2-17: Particular requirements for routers and trimmers</i> Until 23/08/2020 Or IEC 62841-2-17 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.17: Particular</i>

		<i>hand-held routers</i>	<i>requirements for hand-held routers</i>
Sanders and polishers other than disc type	Standard E in conjunction with IEC 60745-2-4 Ed 2.1	Cited standard has been superseded IEC 62841-2-4 Ed 1.0 (2014) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.4: Particular requirements for hand-held sanders and polishers other than disc type</i>	Immediate transition to latest standard
Screwdrivers and impact wrenches	Standard E in conjunction with IEC 60745-2-2 Ed 2.1 as modified by Annex ZZ of AS/NZS 60745.2.2:2009	Cited standard has been superseded IEC 62841-2-2 Ed 1.0 (2014) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.2: Particular requirements for hand-held screwdrivers and impact wrenches</i>	Immediate transition to latest standard
Shears and nibblers	Standard E in conjunction with IEC 60745-2-8 Ed 2.1 as modified by Annex ZZ of AS/NZS 60745.2.8:2009	Cited standard has been superseded IEC 62841-2-8 Ed 1.0 (2016) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 2.8: Particular requirements for hand-held shears and nibblers</i>	Immediate transition to latest standard
Spray guns for non-flammable liquids	AS/NZS 3160:2009 including Amendments 1 and 2	Cited standard is current AS/NZS 3160:2009 <i>Approval and test specification – Hand-held portable electric tools including Amendment 1</i> This standard is not subject to IEC 60745-1 Ed 4.0 (2006)	No change to main standard. Previous amendments 1 and 2 have been incorporated in this revised version of standard. New Amendments have been added. Therefore wording to read: AS/NZS 3160:2009 <i>Approval and test specification – Hand-held portable electric tools including Amendment 1</i>

			This standard is not subject to IEC 60745-1 Ed 4.0 (2006)
Strapping tools	Standard E in conjunction with IEC 60745-2-18 Ed 1.1	Cited standard is current IEC 60745-2-18 Ed 1.1 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-18: Particular requirements for strapping tools</i>	No change
Tackers	Standard E in conjunction with IEC 60745-2-16 Ed 2.0	Cited standard is current IEC 60745-2-16 Ed 2.0 (2008) <i>Hand-held motor-operated electric tools - Safety - Part 2-16: Particular requirements for tackers</i>	No change
Tappers	Standard E in conjunction with IEC 60745-2-9 Ed 2.1	Cited standard is current IEC 60745-2-9 Ed 2.1 <i>Hand-held motor-operated electric tools - Safety - Part 2-9: Particular requirements for tappers</i>	No change
Transportable bench grinders	New standard	IEC 62841-3-4 Ed 1.0 (2016) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.4: Particular requirements for transportable bench grinders</i>	Immediate adoption of new standard – broadens the scope of this clause for new equipment.
Transportable diamond drills with liquid system	New standard	IEC 62841-3-6 Ed 1.0 (2014) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.6: Particular requirements for transportable diamond drills with liquid system</i>	Immediate adoption of new standard – broadens the scope of this clause for new equipment.
Transportable drills	New standard	IEC 62841-3-13 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.13: Particular requirements for transportable drills</i>	Immediate adoption of new standard – broadens the scope of this clause for new equipment. Though IEC recommends adopting from 2020, there is no prior applicable standard.

Transportable mitre saws	New standard	IEC 62841-3-9 Ed 1.0 (2014) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.9: Particular requirements for transportable mitre saws</i>	Immediate adoption of new standard – broadens the scope of this clause for new equipment.
Transportable table saws	New standard	IEC 62841-3-1 Ed 1.0 (2014) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.1: Particular requirements for</i>	Immediate adoption of new standard – broadens the scope of this clause for new equipment.
Transportable threading machines	New standard	IEC 62841-3-12 Ed 1.0 (2017) <i>Electric motor-operated hand-held tools, transportable tools and lawn and garden machinery - Safety - Part 3.12: Particular requirements for transportable threading machines</i>	Immediate adoption of new standard – broadens the scope of this clause for new equipment. Though IEC recommends adopting from 2020, there is no prior applicable standard.

Clause 7

Electric Welding Machines

Electric Welding Machines	Applicable standard	Latest Edition	Suggested change and Rationale
Limited-duty portable AC arc welding machines	IEC 60974-6 Ed 2.0 Or IEC 60974 Ed 1.0 as modified by AS 60974.6:2006	Cited edition of standard has been superseded IEC 60974-6 Ed 3.0 (2015) <i>Arc welding equipment – Part 6: Limited duty equipment</i>	Immediate transition to most recent IEC standard

Clause 8

Audio and video products

Audio & video products	Applicable standard	Latest edition	Suggested change and rationale
Audio, video, and similar electronic apparatus	AS/NZS 60065:2012 Or IEC 60065 Ed 7.2 as modified by Annex ZZ of AS/NZS 60065:2012	Cited edition of standard has been superseded IEC 60065 Ed 8.0 (2014) <i>Audio, video and similar electronic apparatus - Safety requirements</i> IEC 62368-1 Ed 3.0 2(018) <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i>	Immediate transition to: IEC 60065 Ed 8.0 (2014) <i>Audio, video and similar electronic apparatus - Safety requirements</i> until 01/01/2023 to allow 5 years transition OR IEC 62368-1 Ed 3.0 (2018) <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i>
Safety aspects for DC power transfer through communication cables and ports	NEW STANDARD	IEC 62368-3 Ed1.0 (2017) <i>Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports</i>	Immediate adoption of new standard – standard only came into existence in 2017 and broadens the scope of this schedule in line with technological developments
Power supplies for IT equipment	AS/NZS 60065:2012 or IEC 60065 Ed 7.2 as modified by Annex ZZ of AS/NZS 60065:2012	Cited edition of standard has been superseded IEC 60065 Ed 8.0 (2014) <i>Audio, video and similar electronic apparatus - Safety requirements</i> IEC 62368-1 Ed 3.0 2(018) <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i>	Immediate transition to: IEC 60065 Ed 8.0 (2014) <i>Audio, video and similar electronic apparatus - Safety requirements</i> until 01/01/2023 to allow 5 years transition OR IEC 62368-1 Ed 3.0 2(018) <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i>

Clause 9

Information Technology Equipment

Information technology equipment	Applicable standard	Latest Edition	Suggested change and rationale
Information technology equipment	AS/NZS 60950.1:2011 or IEC 60950-1 Ed 2.1, as modified by Annex ZZ of AS/NZS 60950.1:2011	Cited edition of standard has been superseded AS/NZS 60950.1:2015 <i>Information technology equipment - Safety - Part 1: General requirements</i> AS/NZS 62368.1:2018 <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i> Will supersede above standard on 15/02/2022 IEC 60950 Ed 2.2 (2013) <i>Audio, video and similar electronic apparatus - Safety requirements</i>	Immediate transition to the latest IEC standards: IEC 60950-1 Ed 2.2 (2013) <i>Audio, video and similar electronic apparatus - Safety requirements</i> Until 01/01/2023 to allow 5 year transition OR IEC 62368-1 Ed 3.0 (2018) <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i>
Power supplies for IT equipment	AS/NZS 60950.1:2011 or IEC 60950-1 Ed 2.1, as modified by Annex ZZ of AS/NZS 60950.1:2011	Cited edition of standard has been superseded AS/NZS 60950.1:2015 <i>Information technology equipment - Safety - Part 1: General requirements</i> AS/NZS 62368.1:2018 <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i> Will supersede above standard on 15/02/2022 IEC 60950 Ed 2.2 (2013) <i>Audio, video and similar electronic apparatus - Safety requirements</i>	Immediate transition to the latest IEC standards: IEC 60950-1 Ed 2.2 (2013) <i>Audio, video and similar electronic apparatus - Safety requirements</i> Until 01/01/2023 to allow 5 year transition OR IEC 62368-1 Ed 3.0 (2018) <i>Audio/video, information and communication technology equipment - Part 1: Safety requirements</i>

Clause 10

Electrical medical devices

standard G means IEC 60601-1 Ed 3.0, including Amendment 1

standard H means IEC 60601-1 Ed 2.0, including Amendments 1 and 2.

These standards have been superseded by IEC 60601-1 Ed 3.1 (2012) *Medical electrical equipment - Part 1: General requirements for basic safety and essential performance*

References to standards G and H will be removed.

All standards included in this section must comply with IEC 60601-1 Ed 3.1 (2012) in conjunction with the part 2 of the cited standard. Only additional changes are noted below. As these standards are not requirements, all changes are to take place immediately.

The Collateral standards have been moved to the start of this table. These standards run in parallel with other standards and are an overall standard, rather than being specific to any piece of equipment. The collateral standards are therefore not subject to part 2 of their specified standard.

Type	Applicable standard	Latest edition	Suggested change and rationale
Collateral standard - Alarm systems in medical electrical equipment and medical electrical systems	Standard G in conjunction with IEC 60601-1-8 Ed 2.1	Cited standard is current IEC 60601-1-8 Ed 2.1 (2012) <i>Medical electrical equipment - Part 1-8: General requirements for basic safety and essential performance - Collateral Standard: General requirements, tests and guidance for alarm systems in medical electrical equipment and medical electrical systems</i>	No change
Collateral standard—Medical electrical equipment and medical electrical systems used in the home healthcare environment	Standard G in conjunction with IEC 60601-1-11 Ed 1.0	Cited edition of standard has been superseded IEC 60601-1-11 Ed 2.0 2015 <i>Medical electrical equipment – Part 1-11: General requirements for basic safety and essential performance – Collateral Standard:</i>	Immediate transition to most recent IEC standard

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Requirements for medical electrical equipment and medical electrical systems used in the home healthcare environment</i>	
Collateral standard—Medical electrical systems	Standard H in conjunction with IEC 60601-1-1 Ed 2.0	Cited standard has been withdrawn. See below standard. IEC 60601-1-12 Ed 1.0 (2014) <i>Medical electrical equipment - Part 1-12: General requirements for basic safety and essential performance - Collateral Standard: Requirements for medical electrical equipment and medical electrical systems intended for use in the emergency medical services environment</i>	Immediate transition to most recent, relevant IEC standard
Collateral standard—Physiologic closed-loop controllers	Standard G in conjunction with IEC 60601-1-10 Ed 1.0	Cited edition of standard has been superseded IEC 60601-1-10 Ed 1.1 (2013) <i>Medical electrical equipment - Part 1-10: General requirements for basic safety and essential performance - Collateral Standard: Requirements for the development of physiologic closed-loop controllers</i>	Immediate transition to most recent IEC standard
Collateral standard—Programmable electrical medical systems	Standard H in conjunction with IEC 60601-1-4 Ed 1.1	Cited standard has been withdrawn.	Withdraw standard
Collateral standard—Radiation protection in diagnostic X-ray equipment	Standard G in conjunction with IEC 60601-1-3 Ed 2.1	Cited standard is current IEC 60601-1-3 Ed 2.1 (2013) <i>Medical electrical equipment - Part 1.3: General requirements for basic safety and essential performance - Collateral Standard: Radiation protection in diagnostic X-ray equipment</i>	No change
Collateral standard—usability	Standard G in conjunction with IEC 60601-1-6 Ed 3.0	Cited edition of standard has been superseded IEC 60601-1-6 Ed. 3.1 (2013)	Immediate transition to most recent IEC standard

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>Medical electrical equipment - Part 1-6: General requirements for basic safety and essential performance - Collateral standard: Usability</i>	

Type	Applicable standard	Latest Edition	Suggested change and rationale
Ambulatory electrocardiographic systems	Standard G in conjunction with IEC 60601-2-47 Ed 2.0	Cited standard is current IEC 60601-2-47 Ed 2.0 (2012) <i>Medical electrical equipment – Part 2.47: Particular requirements for the basic safety and essential performance of ambulatory electrocardiographic systems</i>	No change
Anaesthetic systems	Standard G in conjunction with IEC 80601-2-13 Ed 1.0	Cited edition of standard has been superseded ISO 80601-2-13 Ed 1.0 (2011) <i>Medical electrical equipment – Part 2.13: Particular requirements for basic safety and essential performance of an anaesthetic workstation</i>	Immediate transition to most recent ISO standard This is a name change only. IEC website also notes this standard as ISO/IEC 80601-2-13
Automatic cycling non-invasive blood pressure monitoring equipment	Standard G in conjunction with IEC 80601-2-30 Ed 1.0	Cited edition of standard has been superseded IEC 80601-2-30 Ed 2.0 (2018) <i>Medical electrical equipment - Part 2-30: Particular requirements for the basic safety and essential performance of automated non-invasive sphygmomanometers</i>	Immediate transition to most recent IEC standard.
Blankets, pads, and mattresses intended for heating in medical use	Standard G in conjunction with IEC 80601-2-35 Ed 2.0	Cited edition of standard has been superseded IEC 80601-2-35 Ed 2.1 (2016) <i>Medical electrical equipment – Part 2.35: Particular requirements for the basic safety</i>	Immediate transition to most recent IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		<i>and essential performance of heating devices using blankets, pads or mattresses and intended for heating in medical use</i>	
Cardiac defibrillators	Standard G in conjunction with IEC 60601-2-4 Ed 3.0	Cited edition of standard has been superseded IEC 60601-2-4 Ed 3.1 (2018) <i>Medical electrical equipment – Part 2.30: Particular requirements for the basic safety and essential performance of cardiac defibrillators</i>	Immediate transition to most recent IEC standard
Clinical thermometers for body temperature measurement	Standard G in conjunction with IEC 80601-2-56 Ed 1.0	Cited edition of standard has been superseded ISO 80601-2-56 Ed 2.0 (2017) <i>Medical electrical equipment - Part 2-56: Particular requirements for basic safety and essential performance of clinical thermometers for body temperature measurement</i>	Immediate transition to most recent ISO standard. Correct naming of this standard is ISO as confirmed by IEC website
Critical care ventilators	Standard G in conjunction with IEC 60601-2-12 Ed 1.0	Cited standard has been withdrawn and replaced by: ISO 80601-2-12 Ed 1.0 (2011) <i>Medical electrical equipment – Part 2.12: Particular requirements for basic safety and essential performance of critical care ventilators</i>	Immediate transition to most recent ISO standard.
Dental extra-oral X-ray equipment	Standard G in conjunction with IEC 60601-2-63 Ed 1.0	Cited edition of standard has been superseded IEC 60601-2-63 Ed 1.1 (2017) <i>Medical electrical equipment – Part 2.63: Particular requirements for the basic safety and essential performance of dental extra-oral X-ray equipment</i>	Immediate transition to most recent IEC standard
Dental intra-oral X-ray equipment	Standard G in conjunction with IEC 60601-2-65 Ed 1.0	Cited edition of standard has been superseded	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		IEC 60601-2-65 Ed 1.1 b(2017) <i>Medical electrical equipment – Part 2.65: Particular requirements for the basic safety and essential performance of dental intra-oral X-ray equipment</i>	
Diagnostic and therapeutic laser equipment	Standard G in conjunction with IEC 60601-2-22 Ed 3.1	Cited edition of standard has been superseded IEC 60601-2-22 Ed 3.1 b(2012) <i>Medical electrical equipment – Part 2.22: Particular requirements for the basic safety and essential performance of surgical, cosmetic, therapeutic and diagnostic laser equipment</i>	Immediate transition to latest IEC standard
Direct blood-pressure monitoring equipment	Standard G in conjunction with IEC 60601-2-34 Ed 3.0	Cited standard is current IEC 60601-2-34 Ed 3.0 b(2011) <i>Medical electrical equipment – Part 2.34: Particular requirements for the basic safety and essential performance of invasive blood pressure monitoring equipment</i>	No change
Electrocardiographs	NEW STANDARD	Cited standard is current IEC 60601-2-25 Ed 2.0 (2011) <i>Medical electrical equipment - Part 2-25: Particular requirements for the basic safety and essential performance of electrocardiographs</i>	This standard was in the previous regulations, but was included in the row below (Electrocardiographic monitoring equipment). This standard has been introduced on its own as a clarification of the standard below. The purpose is to separate the standards for Electrocardiographs and the equipment that monitors electrocardiographs.
Electrocardiographic monitoring equipment	IEC 60601-2-25 Ed 2.0, including Amendment 1 and IEC 60601-2-27 Ed 3.0	Cited standard is current IEC 60601-2-27 Ed 3.0 (2011) <i>Medical electrical equipment - Part 2-27: Particular requirements for the basic safety and essential performance of electrocardiographic monitoring equipment</i>	Immediate transition to relevant IEC standard only. See above.
Electroencephalographs	Standard G in conjunction with IEC 60601-2-	Cited edition of standard has been	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
	26 Ed 2.0	superseded IEC 60601-2-26 Ed 3.0 (2012) <i>Medical electrical equipment – Part 2.26: Particular requirements for the basic safety and essential performance of electroencephalographs</i>	
Electromyographs and evoked response equipment	Standard G in conjunction with IEC 60601-2-40 Ed 1.0	Cited edition of standard has been superseded IEC 60601-2-4 Ed 2.0 (2016) <i>Medical electrical equipment – Part 2.40: Particular requirements for the basic safety and essential performance of electromyographs and evoked response equipment</i>	Immediate transition to latest IEC standard
Electron accelerators in the range of 1 MeV to 50 MeV	Standard G in conjunction with IEC 60601-2-1 Ed 3.0	Cited edition of standard has been superseded IEC 60601-2-1 Ed 3.1 (2014) <i>Medical electrical equipment - Part 2-1: Particular requirements for the basic safety and essential performance of electron accelerators in the range 1 MeV to 50 MeV</i>	Immediate transition to latest IEC standard
Endoscopic equipment	Standard G in conjunction with IEC 60601-2-18 Ed 3.0	Cited standard is current IEC 60601-2-18 Ed 3.0 (2009) <i>Medical electrical equipment - Part 2-18: Particular requirements for the basic safety and essential performance of endoscopic equipment</i>	No change
External cardiac pacemakers with internal power source	Standard G in conjunction with IEC 60601-2-31 Ed 2.1	Cited standard is current IEC 60601-2-31 Ed 2.1 (2011) <i>Medical electrical equipment - Part 2-31: Particular requirements for the basic safety and essential performance of external cardiac pacemakers with internal power</i>	No change

Type	Applicable standard	Latest Edition	Suggested change and rationale
		<i>source</i>	
Extracorporeally induced lithotripsy	Standard G in conjunction with IEC 60601-2-36 Ed 1.0	Cited edition of standard has been superseded IEC 60601-2-36 Ed 2.0 (2014) <i>Medical electrical equipment - Part 2-36: Particular requirements for the basic safety and essential performance of equipment for extracorporeally induced lithotripsy</i>	Immediate transition to latest IEC standard
Gamma beam therapy equipment	Standard G in conjunction with IEC 60601-2-11 Ed 3.0	Cited standard is current IEC 60601-2-11 Ed. 3.0 (2013) <i>Medical electrical equipment - Part 2.11: Particular requirements for the basic safety and essential performance of gamma beam therapy equipment</i>	No change
Haemodialysis, haemodiafiltration, and haemofiltration equipment	Standard G in conjunction with IEC 60601-2-16 Ed 4.0	Cited edition of standard has been superseded IEC 60601-2-16 Ed 5.0 (2018) <i>Medical electrical equipment - Part 2-16: Particular requirements for basic safety and essential performance of haemodialysis, haemodiafiltration and haemofiltration equipment</i>	Immediate transition to latest IEC standard
High-frequency surgical equipment	Standard G in conjunction with IEC 60601-2-2 Ed 5.0	Cited edition of standard has been superseded IEC 60601-2-2 Ed 6.0 (2017) <i>Medical electrical equipment - Part 2-2: Particular requirements for the basic safety and essential performance of high frequency surgical equipment and high frequency surgical accessories</i>	Immediate transition to latest IEC standard
Infant incubators	Standard G in conjunction with IEC 60601-2-19 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-19 Ed 2.1 (2016)	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		<i>Medical electrical equipment - Part 2-19: Particular requirements for the basic safety and essential performance of infant incubators</i>	
Infant phototherapy equipment	Standard G in conjunction with IEC 60601-2-50 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-50 Ed 2.1 (2016) <i>Medical electrical equipment - Part 2-50: Particular requirements for the basic safety and essential performance of infant phototherapy equipment</i>	Immediate transition to latest IEC standard
Infant radiant warmers	Standard G in conjunction with IEC 60601-2-21 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-21 Ed 2.1 (2016) <i>Medical electrical equipment - Part 2-21: Particular requirements for the basic safety and essential performance of infant radiant warmers</i>	Immediate transition to latest IEC standard
Infant transport incubators	Standard G in conjunction with IEC 60601-2-20 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-20 Ed 2.1 (2016) <i>Medical electrical equipment - Part 2-20: Particular requirements for the basic safety and essential performance of infant transport incubators</i>	Immediate transition to latest IEC standard
Infusion pumps and controllers	Standard G in conjunction with IEC 60601-2-24 Ed 2.0	Cited standard is current. IEC 60601-2-24 Ed 2.0 (2012) <i>Medical electrical equipment - Part 2-24: Particular requirements for the basic safety and essential performance of infusion pumps and controllers</i>	No change
Lens removal devices and vitrectomy devices for ophthalmic surgery	Standard G in conjunction with IEC 80601-2-58 Ed 1.0	Cited edition of standard has been superseded IEC 80601-2-58 Ed 2.1 (2016)	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		<i>Medical electrical equipment - Part 2-58: Particular requirements for the basic safety and essential performance of lens removal devices and vitrectomy devices for ophthalmic surgery</i>	
Magnetic resonance equipment for medical diagnosis	Standard G in conjunction with IEC 80601-2-33 Ed 3.1	Cited edition of standard has been superseded IEC 60601-2-33 Ed 3.2 (2015) <i>Medical electrical equipment - Part 2-33: Particular requirements for the basic safety and essential performance of magnetic resonance equipment for medical diagnosis</i>	Immediate transition to latest IEC standard
Mammographic X-ray equipment and mammographic stereotactic devices	Standard G in conjunction with IEC 60601-2-45 Ed 3.0	Cited edition of standard has been superseded IEC 60601-2-45 Ed 3.1 (2015) <i>Medical electrical equipment - Part 2-45: Particular requirements for basic safety and essential performance of mammographic X-ray equipment and mammomographic stereotactic devices</i>	Immediate transition to latest IEC standard
Medical beds	Standard G in conjunction with IEC 60601-2-52 Ed 1.0	Cited edition of standard has been superseded IEC 60601-2-52 Ed 1.1 (2015) <i>Medical electrical equipment - Part 2-52: Particular requirements for the basic safety and essential performance of medical beds</i>	Immediate transition to latest IEC standard
Microwave therapy equipment	Standard G in conjunction with IEC 60601-2-6 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-6 Ed 2.1 (2016) <i>Medical electrical equipment - Part 2-6: Particular requirements for the basic safety and essential performance of microwave therapy equipment</i>	Immediate transition to latest IEC standard
Multifunction patient monitoring equipment	Standard G in conjunction with IEC 60601-2-49 Ed 2.0	Cited Standard has been withdrawn and replaced. See standard below.	Immediate transition to latest relevant IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		IEC 80601-2-49 Ed 1.0 (2018) <i>Medical electrical equipment - Part 2-49: Particular requirements for the basic safety and essential performance of multifunction patient monitors</i>	
Nerve and muscle stimulators	Standard G in conjunction with IEC 60601-2-10 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-10 Ed 2.1 (2016) <i>Medical electrical equipment - Part 2-10: Particular requirements for the basic safety and essential performance of nerve and muscle stimulators</i>	Immediate transition to latest IEC standard
Non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use	Standard G in conjunction with IEC 60601-2-57 Ed 1.0	Cited standard is current IEC 60601-2-57 Ed 1.0 (2011) <i>Medical electrical equipment - Part 2-57: Particular requirements for the basic safety and essential performance of non-laser light source equipment intended for therapeutic, diagnostic, monitoring and cosmetic/aesthetic use</i>	No change
Operating tables	Standard G in conjunction with IEC 60601-2-46 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-46 Ed 3.0 (2016) <i>Medical electrical equipment - Part 2-46: Particular requirements for the basic safety and essential performance of operating tables</i>	Immediate transition to latest IEC standard
Oxygen concentrators for individual patient use	Standard H in conjunction with ISO 8359-1996 including Amendment 1	Cited edition of standard has been superseded ISO 80601-2-69 ed 1.0 2014 <i>Medical electrical equipment - Part 2-69: Particular requirements for the basic safety and essential performance of oxygen concentrator equipment</i>	Immediate transition to latest ISO standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
Peritoneal dialysis equipment	Standard G in conjunction with IEC 60601-2-39 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-39 Ed 3.0 (2018) <i>Medical electrical equipment - Part 2-39: Particular requirements for basic safety and essential performance of peritoneal dialysis equipment</i>	Immediate transition to latest IEC standard
Pulse oximeter equipment	Standard G in conjunction with IEC 80601-2-61 Ed 1.0	Cited edition of standard has been superseded ISO 80601-2-61 ed 2.1 (2017) <i>Medical electrical equipment - Part 2-61: Particular requirements for the basic safety and essential performance of pulse oximeter equipment</i>	Immediate transition to latest ISO standard
Radiotherapy simulators	Standard G in conjunction with IEC 60601-2-29 Ed 3.0	Cited standard is current. IEC 60601-2-29 Ed 3.0 (2008) <i>Medical electrical equipment - Part 2-29: Particular requirements for the basic safety and essential performance of radiotherapy simulators</i>	No change
Remote-controlled automatically driven gamma-ray afterloading equipment	Standard H in conjunction with IEC 60601-2-17 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-17 Ed 3.0 (2017) <i>Medical electrical equipment - Part 2-17: Particular requirements for the basic safety and essential performance of automatically-controlled brachytherapy afterloading equipment</i>	Immediate transition to latest IEC standard
Requirements and test for electromagnetic compatibility	Standard G in conjunction with IEC 60601-1-2 Ed 3.0	Cited edition of standard has been superseded IEC 60601-1-2 Ed 4.0 (2014) <i>Medical electrical equipment - Part 1-2: General requirements for basic safety and essential performance - Collateral Standard:</i>	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		<i>Electromagnetic disturbances - Requirements and tests</i>	
Respiratory gas monitors	Standard G in conjunction with IEC 80601-2-55 Ed 1.0	Cited edition of standard has been superseded ISO 80601-2-55 Ed 2.0 (2018) <i>Medical electrical equipment - Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors</i>	Immediate transition to latest ISO standard.
Screening thermographs for human febrile temperature screening	Standard G in conjunction with IEC 80601-2-59 Ed 1.0	Cited edition of standard has been superseded ISO 80601-2-59 Ed 2.0 (2017) <i>Medical electrical equipment - Part 2-59: Particular requirements for the basic safety and essential performance of screening thermographs for human febrile temperature screening</i>	Immediate transition to latest ISO standard.
Short-wave therapy equipment	Standard G in conjunction with IEC 60601-2-3 Ed 3.0	Cited edition of standard has been superseded IEC 60601-2-3 Ed 3.1 (2016) <i>Medical electrical equipment - Part 2-3: Particular requirements for the basic safety and essential performance of short-wave therapy equipment</i>	Immediate transition to latest IEC standard
Sleep apnoea breathing therapy equipment	Standard H in conjunction with ISO 17510-1:2007	Cited edition of standard has been superseded ISO 80601-2-70 Ed 1.0 (2015) <i>Medical electrical equipment - Part 2.70: Particular requirements for basic safety and essential performance of sleep apnoea breathing therapy equipment</i>	Immediate transition to latest ISO standard.
Surgical luminaires and luminaires for diagnosis	Standard G in conjunction with IEC 60601-2-41 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-41 Ed 2.1 (2013)	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		<i>Medical electrical equipment - Part 2-41: Particular requirements for the basic safety and essential performance of surgical luminaires and luminaires for diagnosis</i>	
Therapeutic X-ray generators	Standard G in conjunction with IEC 60601-2-8 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-8 Ed 2.1 (2015) <i>Medical electrical equipment - Part 2-8: Particular requirements for the basic safety and essential performance of therapeutic X-ray equipment operating in the range 10 kV to 1 MV</i>	Immediate transition to latest IEC standard
Transcutaneous partial pressure monitoring equipment	Standard G in conjunction with IEC 60601-2-23 Ed 3.0	Cited standard is current IEC 60601-2-23 Ed 3.0 (2011) <i>Medical electrical equipment - Part 2-23: Particular requirements for the basic safety and essential performance of transcutaneous partial pressure monitoring equipment</i>	No change
Ultrasonic medical diagnostic and monitoring equipment	Standard G in conjunction with IEC 60601-2-37 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-37 Ed 2.1 (2015) <i>Medical electrical equipment - Part 2-37: Particular requirements for the basic safety and essential performance of ultrasonic medical diagnostic and monitoring equipment</i>	Immediate transition to latest IEC standard
Ultrasonic physiotherapy equipment	Standard G in conjunction with IEC 60601-2-5 Ed 3.0	Cited standard is current IEC 60601-2-5 Ed 3.0 (2009) <i>Medical electrical equipment - Part 2-5: Particular requirements for the basic safety and essential performance of ultrasonic physiotherapy equipment</i>	No change
X-ray equipment for interventional procedures	Standard G in conjunction with IEC 60601-2-43 Ed 2.0	Cited edition of standard has been superseded	Immediate transition to latest IEC standard

Type	Applicable standard	Latest Edition	Suggested change and rationale
		IEC 60601-2-43 Ed 2.1 (2017) <i>Medical electrical equipment - Part 2-43: Particular requirements for the basic safety and essential performance of X-ray equipment for interventional procedures</i>	
X-ray equipment for radiography and radioscopy	Standard G in conjunction with IEC 60601-2-54 Ed 1.0	Cited edition of standard has been superseded IEC 60601-2-54 Ed 1.2 (2018) <i>Medical electrical equipment - Part 2-54: Particular requirements for the basic safety and essential performance of X-ray equipment for radiography and radioscopy</i>	Immediate transition to latest IEC standard
X-ray source assemblies and X-ray tube assemblies for medical diagnosis generators	Standard G in conjunction with IEC 60601-2-28 Ed 2.0	Cited edition of standard has been superseded IEC 60601-2-28 Ed 3.0 (2017) <i>Medical electrical equipment - Part 2-28: Particular requirements for the basic safety and essential performance of X-ray tube assemblies for medical diagnosis</i>	Immediate transition to latest IEC standard

Clause 11

Lighting Fittings

Standard J means IEC 60598-1 Ed 7.0 as modified by Annex ZZ of AS/NZS 60598.1:2003

Most recent edition of above standard is IEC 60598-1 Ed 8.1 (2017) *Luminaires - Part 1: General requirements and tests*

Standard K means AS/NZS 60598.1:2003.

Standards J and K will no longer be referenced.

All of the standards in this section must comply with IEC 60598-1 Ed 8.1 (2017), in conjunction with part 2 of the cited standard. Only changes that do not relate to IEC 60598-1 Ed 8.1 (2017) are included.

Lighting fittings	Applicable standard	Latest Edition	Suggested change and rationale
Air handling luminaires	Standard J in conjunction with IEC 60598-2-19 Ed 1.0, including Amendments 1 and 2 Or Standard K in conjunction with AS/NZS 60598.2.19:2001	Cited IEC standard is current IEC 60598-2-19 Ed. 1.0 (1981) <i>Luminaires. Part 2: Particular requirements. Second Nineteen: Air-handling luminaires (safety requirements) Including Amendments 1 and 2.</i>	No change
Aquarium luminaires	Standard J in conjunction with IEC 60598-2-11 Ed. 1.0	Cited standard has been superseded IEC 60598-2-11 Ed. 2.0 (2013) <i>Luminaires. Part 2.11: Particular requirements- Aquarium luminaires</i>	Immediate change to most recent IEC standard
Extra low voltage lighting systems for filament lamps	Standard J in conjunction with IEC 60598-2-23 Ed. 1.1 Or Standard K in conjunction with AS/NZS 60598.2.23:2002	Cited IEC standard is current IEC 60598-2-23 Ed. 1.1 (2001) <i>Luminaires. Part 2.23: Particular requirements - Extra low voltage lighting systems for filament lamps</i>	No change
Fixed general-purpose luminaires	Standard J in conjunction with IEC 60598-2-1 Ed 1.0, including Amendment 1 (Annex ZZ of AS/NZS 60598.1:2003 is not applicable) or	Cited IEC standard is current IEC 60598-2-1 Ed 1.0 (1979) <i>Luminaires. Part 2: Particular requirements.</i>	No change

Lighting fittings	Applicable standard	Latest Edition	Suggested change and rationale
	Standard K in conjunction with AS/NZS 60598.2.1:1998	<i>Section One: Fixed general purpose luminaires</i> <i>Including Amendment 1</i>	
Floodlights	Standard J in conjunction with IEC 60598-2-5 Ed 2.0 as modified by AS/NZS 60598.2.5:2002 or Standard K in conjunction with AS/NZS 60598.2.5:2002	Cited standard has been superseded IEC 60598-2-5 Ed 3.0 (2015) <i>Luminaires - Part 2-5: Particular requirements – Floodlights</i>	Immediate transition to latest IEC standard only
Ground-recessed luminaires	Standard J in conjunction with IEC 60598-2-13 Ed. 1.0	Cited standard has been superseded IEC 60598-2-13 Ed. 1.2 (2016) <i>Luminaires – Part 2.13: Particular requirements – Ground recessed luminaires</i>	Immediate transition to latest IEC standard
Handlamps	Standard J in conjunction with IEC 60598-2-8 Ed 3.0 or Standard K in conjunction with AS/NZS 60598.2.8:2002	Cited IEC standard is current IEC 60598-2-8 Ed 3.0 (2013) <i>Luminaires - Part 2-8: Particular requirements - Handlamps</i>	No change
Lighting chains	Standard J in conjunction with IEC 60598-2-20 Ed 3.0 as modified by AS/NZS 60598.2.20:2002 or Standard K in conjunction with AS/NZS 60598.2.20:2002	Cited standard has been superseded IEC 60598-2-20 Ed 4.0 (2014) <i>Luminaires - Part 2-20: Particular requirements - Lighting chains</i>	Immediate transition to latest IEC standard only
Luminaires for cold cathode tubular discharge lamps (neon tubes) and similar equipment	Standard J in conjunction with IEC 60598-2-14 Ed 1.0	Cited IEC standard is current IEC 60598-2-14 Ed. 1.0 (2009) <i>Luminaires – Part 2.14: Particular requirements – Luminaires for cold cathode tubular discharge lamps (neon tubes) and similar equipment</i>	No change
Luminaires for emergency lighting	Standard J in conjunction with IEC 60598-2-22 Ed 3.2 as modified by Compliance Document for New Zealand Building Code Clause F6 or Standard K in conjunction with AS/NZS 60598.2.22:2005 as modified by Compliance Document for New Zealand Building Code	Cited standard has been superseded IEC 60598-2-22 Ed 4.1 (2017) <i>Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting</i>	Immediate transition to latest IEC standard in conjunction with the Compliance Document for New Zealand Building Code Clause F6.

Lighting fittings	Applicable standard	Latest Edition	Suggested change and rationale
	Clause F6		
Luminaires for road and street lighting	Standard J in conjunction with IEC 60598-2-3 Ed 3.0	Cited standard has been superseded IEC 60598-2-3 Ed 3.1 (2011) <i>Luminaires - Part 2-3: Particular requirements - Luminaires for road and street lighting</i>	Immediate transition to latest IEC standard
Luminaires for stage lighting, television, film, and photographic studios (outdoor and indoor)	Standard J in conjunction with IEC 60598-2-17 Ed 1.2 Or Standard K in conjunction with IEC 60598-2-17:2006	Cited standard has been superseded IEC 60598-2-17 Ed 2.0 (2017) <i>Luminaires - Part 2-17: Particular requirements - Luminaires for stage lighting, television and film studios (outdoor and indoor)</i>	Immediate transition to latest IEC standard
Luminaires for swimming pools and similar applications	Standard J in conjunction with IEC 60598-2-18 Ed 2.0 as modified by Annex ZZ of AS/NZS 60598.2.18:1998 Or Standard K in conjunction with AS/NZS 60598.2.18:1998	Cited IEC standard is current IEC 60598-2-18 Ed 2.0 (1993) <i>Luminaires - Part 2: Particular requirements - Section 18: Luminaires for swimming pools and similar applications</i>	Remove references to any AS/NZS standards. No change to IEC standard.
Luminaires for use in clinical areas of hospitals and health care buildings	Standard J in conjunction with IEC 60598-2-25 Ed 1.0 including Amendment 1 Or Standard K in conjunction with AS/NZS 60598.2.25:2001	Cited IEC standard is current IEC 60598-2-25 Ed 1.0 (1994) <i>Luminaires - Part 2: Particular requirements - Section 25: Luminaires for use in clinical areas of hospitals and health care buildings</i>	Remove references to any AS/NZS standards. No change to IEC standard.
Luminaires with built-in transformers or convertors for filament lamps	Standard J in conjunction with IEC 60598-2-6 Ed 2.0 including Amendment 1 Or Standard K in conjunction with AS/NZS 60598.2.6:1998	Relevant IEC standard has been withdrawn (2015). IEC 60598-2-6 Ed 2.0 (1994) <i>Luminaires - Part 2: Particular requirements - Section 6: Luminaires with built-in transformers for filament lamps</i>	Withdraw this standard – no replacement IEC standard exists.
Luminaires with limited surface temperatures	Standard J in conjunction with IEC 60598-2-24 Ed 1.0	Cited standard has been superseded IEC 60598.2.24 Ed 2.0 (2013) <i>Luminaires – Part 2.4: Particular requirements - Luminaires with limited surface temperatures</i>	Immediate transition to latest IEC standard

Lighting fittings	Applicable standard	Latest Edition	Suggested change and rationale
Mains socket-outlet mounted nightlights	Standard J in conjunction with IEC 60598-2-12 Ed 2.0 in conjunction with Annex J of AS/NZS 3112:2011	Cited IEC standard is current IEC 60598-2-12 Ed 2.0 (2013) <i>Luminaires - Part 2-12: Particular requirements - Mains socket-outlet mounted nightlights</i> AS/NZS 3112:2017 Approval and test specification - Plugs and socket-outlets	Immediate transition to currently cited IEC standard in conjunction with Annex J of AS/NZS 3112:2017 Annex J needed as this refers specifically to NZ plug sockets.
Photo and film luminaires (non-professional)	Standard J in conjunction with IEC 60598-2-9 Ed 2.0 including Amendment 1 Or Standard K in conjunction with AS/NZS 60598.2.9:2006	Cited standard is current AS/NZS 60598.2.9:2006 Luminaires - Particular requirements - Photo and film luminaires (non-professional)	Immediate transition to AS/NZS standard only IEC standard withdrawn 2016
Portable general-purpose luminaires	Standard J in conjunction with IEC 60598-2-4 Ed 2.0 as modified by AS/NZS 60598.2.4:2005, including Amendment 1 Or Standard K in conjunction with AS/NZS 60598.2.4:2005, including Amendment 1	Cited standard has been superseded IEC 60598-2-4 Ed 3.0 (2017) <i>Luminaires – Part 2-4: Particular requirements -Portable general-purpose luminaires</i>	Immediate transition to latest IEC standard
Portable luminaires for children	Standard J in conjunction with IEC 60598-2-10 Ed 2.0 as modified by Annex ZZ of AS/NZS 60598.2.10:1998	Cited IEC standard is current IEC 60598-2-10 Ed 2.0 (2003) <i>Luminaires - Part 2-10: Particular requirements - Portable luminaires for children</i> AS/NZS 60598.2.10:2015 <i>Luminaires - Part 2.10: Particular requirements - Portable luminaires for children</i>	Immediate transition to currently cited IEC standard as modified by Annex ZZ of AS/NZS 60598.2.10:2015 Annex ZZ needed as this refers specifically to NZ plug sockets.
Portable luminaires for garden use	Standard J in conjunction with IEC 60598-2-2 Ed 2.1 as modified by Annex ZZ of AS/NZS 60598.2.10:1998	Cited standard has been withdrawn. This standard is now incorporated into: IEC 60598-2-4 Ed 3.0 (2017) <i>Luminaires – Part 2-4: Particular requirements -Portable general-purpose</i>	Withdraw this standard - it is already included in the standard for Portable general-purpose luminaires

Lighting fittings	Applicable standard	Latest Edition	Suggested change and rationale
		<i>luminaires</i>	
Recessed luminaires	Standard J in conjunction with IEC 60598-2-2 Ed 2.1 as modified by AS/NZS 60598.2.2:2001, including Amendment A	Cited standard has been superseded IEC 60598-2-2 Ed 3.0 (2011) <i>Luminaires - Part 2-2: Particular requirements - Recessed luminaires</i>	Immediate transition to latest IEC standard

Clause 12

Lamp control gear

Standard L means AS/NZS 61347.1:2002

Standard M means IEC 61347-1 Ed 2.1 as modified by AS/NZS 61347.1:2002.

The latest IEC standard is IEC 61347-1 Ed 3.1 (2017) *Lamp control gear - Part 1: General and safety requirements*.

All references to standards L and M are to be removed.

All standards included in this table must comply with IEC 61347-1 Ed 3.1 (2017) in conjunction with part 2 of the cited standard. Only changes not relating to IEC 61347-1 Ed 3.1 (2017) will be noted below.

Type	Applicable standard	Latest edition	Suggested change and rationale
AC supplied electronic ballasts for fluorescent lamps	Standard L in conjunction with AS/NZS 61347.2.3:2004 or Standard M in conjunction with IEC 61347-2-3 Ed 1.1, including Amendment 2 or IEC 61347-2-3 Ed 2.0	Cited edition of standard has been superseded. IEC 61347-2-3 Ed 2.1 (2016) <i>Lamp control gear - Part 2-3: Particular requirements for a.c. and/or d.c. supplied electronic control gear for fluorescent lamps</i>	Immediate transition to latest IEC standard only Name change to: ' AC or DC supplied electronic ballasts for fluorescent lamps ' This is due to the withdrawal of several standards below, and clarifies that this standard refers to DC also.
Ballasts for discharge lamps (excluding fluorescent lamps)	Standard L in conjunction with AS/NZS 61347.2.9:2004	Cited edition of standard has been superseded.	Immediate transition to latest IEC standard only

	or Standard M in conjunction with IEC 61347-2-9 Ed 1.2	IEC 61347-2-9 Ed 2.1 (2012) <i>Lamp controlgear - Part 2-9: Particular requirements for electromagnetic controlgear for discharge lamps (excluding fluorescent lamps)</i>	
Ballasts for fluorescent lamps	Standard L in conjunction with AS/NZS 61347.2.8:2003 or Standard M in conjunction with IEC 61347-2-8 Ed 1.1	Cited IEC standard is current IEC 61347-2-8 Ed 1.1 (2006) <i>Lamp controlgear - Part 2-8: Particular requirements for ballasts for fluorescent lamps</i>	Remove any reference to any AS/NZS standard. No change to cited IEC standard.
DC or AC supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)	Standard M in conjunction with IEC 61347-2-12 Ed 1.1	Cited IEC standard is current IEC 61347-2-12 Ed 1.1 (2010) <i>Lamp controlgear - Part 2-12: Particular requirements for d.c. or a.c. supplied electronic ballasts for discharge lamps (excluding fluorescent lamps)</i>	No change
DC or AC supplied electronic controlgear for LED modules	Standard L in conjunction with IEC 61347-2-13 Ed 1.0	Cited edition of standard has been superseded. IEC 61347-2-13 Ed 2.1 (2016) <i>Lamp controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules</i>	Immediate transition to latest IEC standard
DC or AC supplied electronic step-down convertors for filament lamps	Standard L in conjunction with AS/NZS 61347.2.2:2007	Cited edition of standard has been superseded. IEC 61347-2-2 Ed 2.0 (2011) <i>Lamp controlgear - Part 2-2: Particular requirements for d.c. or a.c. supplied electronic step-down convertors for filament lamps</i>	Immediate transition to latest IEC standard
DC supplied electronic ballasts for aircraft lighting	Standard L in conjunction with AS/NZS 61347.2.6:2002 or Standard M in conjunction with IEC 61347-2-6 Ed 1.0	Cited standard has been withdrawn IEC 61347-2-6 Ed 1.0 (2000) <i>Lamp controlgear - Part 2-6: Particular requirements for d.c. supplied electronic</i>	Withdraw this standard Issues previously covered by this standard have been incorporated into IEC 61347-2-3 Ed 2.1 (2016)

	or IEC 61347-2-3 Ed 2.0	<i>ballasts for aircraft lighting</i> Has been withdrawn	
DC supplied electronic ballasts for emergency lighting	Standard M in conjunction with IEC 61347-2-7 Ed 2.0	Cited edition of standard has been superseded. IEC 61347-2-7 Ed 3.1 (2017) <i>Lamp controlgear - Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)</i>	Immediate transition to latest IEC standard
DC supplied electronic ballasts for general lighting	Standard L in conjunction with AS/NZS 61347.2.4:2002 or Standard M in conjunction with IEC 61347-2-4 Ed 1.0 or IEC 61347-2-3 Ed 2.0	Cited standard has been withdrawn IEC 61347-2-4 Ed 1.0 (2000) <i>Lamp controlgear - Part 2-4: Particular requirements for d.c. supplied electronic ballasts for general lighting</i> Has been withdrawn	Withdraw this standard Issues previously covered by this standard have been incorporated into IEC 61347-2-3 Ed 2.1 (2016)
DC supplied electronic ballasts for public transport	Standard L in conjunction with AS/NZS 61347.2.5:2002 or Standard M in conjunction with IEC 61347-2-5 Ed 1.0 or IEC 61347-2-3 Ed 2.0	Cited standard has been withdrawn IEC 61347-2-5 Ed 1.0 (2000) <i>Lamp controlgear - Part 2-5: Particular requirements for d.c. supplied electronic ballasts for public transport lighting</i>	Withdraw this standard Issues previously covered by this standard have been incorporated into IEC 61347-2-3 Ed 2.1 (2016)
Electronic inverters and converters for high-frequency operation of cold start tubular discharge lamps (neon tubes)	Standard L in conjunction with AS/NZS 61347.2.10:2004 or Standard M in conjunction with IEC 61347-2-10 Ed 1.1	Cited IEC standard is current IEC 61347-2-10 Ed 1.1 (2009) <i>Lamp controlgear - Part 2-10: Particular requirements for electronic invertors and convertors for high-frequency operation of cold start tubular discharge lamps (neon tubes)</i>	Remove any reference to any AS/NZS standard. No change to cited IEC standard.
Glow-starters for fluorescent lamps	AS/NZS 60155:2000, including Amendments 1 and 2 or IEC 60155 Ed 4.0, including Amendments 1 and 2, as modified buy AS/NZS 60155:2000, including Amendments 1 and 2	Cited IEC standard is current IEC 60155 Ed 4.0 (1993) <i>Glow-starters for fluorescent lamps</i> Amendments incorporated	Remove any reference to any AS/NZS standard. No change to cited IEC standard.

Miscellaneous electronic circuits used with luminaires	Standard L in conjunction with AS/NZS 61347.2.11:2003 or Standard M in conjunction with IEC 61347-2-11 Ed 1.0	Cited edition of standard has been superseded. IEC 61347-2-11 Ed 1.1 (2017) <i>Lamp controlgear - Part 2-11: Particular requirements for miscellaneous electronic circuits used with luminaires</i>	Immediate transition to most recent IEC standard only.
Starting devices (other than flow starters)	Standard L in conjunction with AS/NZS 61347.2.1:2002 or Standard M in conjunction with IEC 61347-2-1 Ed 1.1	Cited edition of standard has been superseded. IEC 61347-2-1 Ed 1.2 (2013) <i>Lamp controlgear - Part 2-1: Particular requirements for starting devices (other than glow starters)</i>	Immediate transition to most recent IEC standard only.

Clause 13

Lamps

Type	Applicable standard	Latest edition	Suggested change and rationale
Tungsten filament lamps for domestic and similar general lighting purposes	AS/NZS 60432.1:2007 Or IEC 60432-1 Ed 2.2	Cited IEC standard is current IEC 60432-1 Ed 2.2 (2012) <i>Incandescent lamps - Safety specifications - Part 1: Tungsten filament lamps for domestic and similar general lighting purposes</i>	Remove reference to AS/NZS standard No change to IEC standard
Tungsten-halogen lamps for domestic and similar general lighting purposes	AS/NZS 60432.2:2007 Or IEC 60432-2 Ed 2.2	Cited IEC standard is current IEC 60432-2 Ed 2.2 (2012) <i>Incandescent lamps - Safety specifications - Part 2: Tungsten halogen lamps for domestic and similar general lighting purposes</i>	Remove reference to AS/NZS standard No change to IEC standard
Tungsten-halogen lamps (non-vehicle)	AS/NZS 60432.3:2007 Or IEC 60432-3 Ed 2.0	Cited IEC standard is current IEC 60432-3 Ed 2.0 (2012) <i>Incandescent lamps - Safety specifications - Part 3: Tungsten halogen lamps (non-vehicle)</i>	Remove reference to AS/NZS standard No change to IEC standard
Self-ballasted lamps for general lighting services	AS/NZS 60968:2001 Or IEC 60968 Ed 2.0	Cited edition of standard has been superseded IEC 60968 Ed 3.0 (2015) <i>Self-ballasted fluorescent lamps for general lighting services - Safety requirements</i>	Remove reference to AS/NZS standard Immediate transition to latest IEC standard

Clause 14

Power Transformers, power supplies, reactors and similar products

Standard N means IEC 61558-1 Ed 2.1 as modified by Annex ZZ of AS/NZS 61558.1:2008, including Amendment 1

Standard O means AS/NZS 62558.1:2000, including Amendments 1 to 7

Standard P means IEC 61558-1 Ed 1.1 as modified by Annex ZZ of AS/NZS 61558.1:2000, including Amendments 1 to 7

The latest version of the above IEC standards is:

IEC 61558-1 Ed 3.0 (2017) *Safety of transformers, reactors, power supply units and combinations thereof - Part 1: General requirements and tests*

All references to standards N, O and P are to be removed. All standards below must comply with IEC 61558-1 Ed 3.0 (2017) in conjunction with part 2 of the cited standard. Only changes not relating to IEC 61558-1 Ed 3.0 (2017) are included in this table.

Type	Applicable standard	Latest edition	Suggested change and rationale
Auto transformers and power supply units incorporating auto transformers	Standard N in conjunction with IEC 61558-2-13 Ed 2.0	Cited standard is current IEC 61558-2-13 Ed 2.0 (2009) <i>Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers</i>	No change
Bell and chime transformers and power supply units	Standard N in conjunction with IEC 61558-2-8 Ed 2.0 Or Until 29/04/2014, standard O in conjunction with AS/NZS 61558.2.5:2001	Cited IEC standard is current IEC 61558-2-8 Ed 2.0 (2010) <i>Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes</i> Reference to AS/NZS 61558.2.5:2001 has	No change

Type	Applicable standard	Latest edition	Suggested change and rationale
		already expired	
Constant voltage transformers and power supply units	Standard P in conjunction with IEC 61558-2-12 Ed 2.0	Cited standard is current IEC 61558-2-12 Ed 2.0 (2011) <i>Safety of transformers, reactors, power supply units and combination thereof - Part 2-12: Particular requirements and tests for constant voltage transformers and power supply units for constant voltage</i>	No change
Control transformers and power supplies incorporating control transformers	Standard N in conjunction with IEC 61558-2-2 Ed 2.0	Cited standard is current IEC 61558-2-2 Ed 2.0 (2007) <i>Safety of power transformers, power supplies, reactors and similar products - Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers</i>	No change
Ignition transformers for gas and oil burners	Standard N in conjunction with IEC 61558-2-3 Ed 2.0 Or Until 29/05/2014, standard O in conjunction with AS/NZS 61558.2.3:2001	Cited IEC standard is current IEC 61558-2-3 Ed 2.0 (2010) <i>Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3: Particular requirements and tests for ignition transformers for gas and oil burners</i> Reference to AS/NZS 61558.2.3:2001 has already expired	No change
Isolating transformers and power supply units for isolating transformers for general use	Standard N in conjunction with IEC 61558-2-4 Ed 2.0	Cited standard is current IEC 61558-2-4 Ed 2.0 (2009) <i>Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers</i>	No change
Isolating transformers for the supply of medical locations	Standard N in conjunction with IEC 61558-2-15 Ed 2.0 as modified by AS/NZS 61558.2.15:2012	Cited IEC standard is current IEC 61558-2-15 Ed 2.0 (2011)	No change

Type	Applicable standard	Latest edition	Suggested change and rationale
	Or Until 26/10/2015, standard O in conjunction with AS/NZS 61558.2.15:2001	<i>Safety of transformers, reactors, power supply units and combinations thereof - Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations</i> Reference to AS/NZS 61558.2.15:2001 has already expired	
Safety isolating transformers and power supply units for isolating transformers for general use	Standard N in conjunction with IEC 61558-2-6 Ed 2.0 as modified by AS/NZS 61558.2.6:2009	Cited IEC standard is current IEC 61558-2-6 Ed 2.0 (2009) <i>Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1 100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers</i>	Remove reference to AS/NZS 61558.2.6:2009 No change to cited IEC standard
Separating transformers and powers supplies incorporating separating transformers for general application	Standard N in conjunction with IEC 61558-2-1 Ed 2.0	Cited standard is current IEC 61558-2-1 Ed 2.0 (2007) <i>Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications</i>	No change
Small reactors	Standard N in conjunction with IEC 61558-2-20 Ed 2.0 Or Until 29/04/2014, standard P in conjunction with IEC 61558-2-20 Ed 1.0	Cited IEC standard is current IEC 61558-2-20 Ed 2.0 (2010) <i>Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20: Particular requirements and tests for small reactors</i> Reference to IEC 61558-2-20 Ed 1.0 has already expired	No change
Switch mode power supply units and transformers for switch mode power supply units	Standard N in conjunction with IEC 61558-2-16 Ed 1.0	IEC 61558-2-16 Ed 1.1 (2013) <i>Safety of transformers, reactors, power supply units and similar products for supply</i>	Immediate transition to most recent standard

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>voltages up to 1 100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units</i>	
Transformers and power supplies for toys	Standard N in conjunction with IEC 61558-2-7 Ed 2.0	Cited standard is current IEC 61558-2-7 Ed 2.0 (2007) <i>Safety of power transformers, power supplies, reactors and similar products - Part 2-7: Particular requirements and tests for transformers and power supplies for toys</i>	No change
Transformers and power supply units for construction sites	Standard N in conjunction with IEC 61558-2-23 Ed 2.0 Or Until 29/04/2014, standard O in conjunction with AS/NZS 61558.2.23:2001	Cited IEC standard is current IEC 61558-2-23 Ed 2.0 (2010) <i>Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites</i> Reference to AS/NZS 61558.2.23:2001 has already expired	No change
Transformers for class III handlamps for tungsten filament lamps	Standard N in conjunction with IEC 61558-2-9 Ed 2.0 Or Until 29/04/2014, standard O in conjunction with AS/NZS 61558.2.9:2003	Cited standard is current IEC 61558-2-9 Ed 2.0 (2010) <i>Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps for tungsten filament lamps</i> Reference to AS/NZS 61558.2.9:2003 has already expired	No change
Transformers for shaver, power supply units for shavers, and shaver supply units	Standard N in conjunction with IEC 61558-2-5 Ed 2.0 as modified by AS/NZS 61558.2.5:2011, including Amendment 1 Or Until 28/10/2014, standard O in conjunction with AS/NZS 61558.2.5:2003	Cited standard is current AS/NZS 61558.2.5:2011 <i>Safety of transformers, reactors, power supply units and combinations thereof – Part 2.5: Particular requirements and test for</i>	Immediate transition to AS/NZS standard only No IEC as this is a socket outlet specific for NZ plugs

Type	Applicable standard	Latest edition	Suggested change and rationale
		<i>transformers for shavers, power supply units for shavers and shaver supply units Including Amendment 1</i>	

Clause 15

Mining Electrical Equipment

Standard Q means AS/NZS 4871.1:2012

All references to standard Q are to be removed.

All equipment below is subject to AS/NZS 4871.1:2012 - *Electrical equipment for mines and quarries - Part 1: General requirements*, the standard cited below and part 2 thereof.

Note: 4871 series is currently being reviewed.

Type	Applicable standard	Latest edition	Suggested change and rationale
Distribution, control and auxiliary equipment	Standard Q in conjunction with AS/NZS 4871.2:2010	Cited standard is current AS/NZS 4871.2:2010 <i>Electrical equipment for mines and quarries – Distribution, control and auxiliary equipment</i>	No change
Substations	Standard Q in conjunction with AS/NZS 4871.3:2010	One amendment to cited standard since situation AS/NZS 4871.3:2010 <i>Electrical equipment for mines and quarries – Substations Including amendment 1</i>	Immediate transition to include amendment one
Mains powered electrical mobile machines	Standard Q in conjunction with AS/NZS 4871.4:2010	Cited standard is current AS/NZS 4871.4:2010 <i>Electrical equipment for mines and quarries - Mains powered electrical mobile machines</i>	No change
Battery powered electrical mobile machines	Standard Q in conjunction with AS/NZS	AS/NZS 4871.5:2010	No change

Type	Applicable standard	Latest edition	Suggested change and rationale
	4871.5:2010	<i>Electrical equipment for mines and quarries - Battery powered electrical mobile machines</i>	
Diesel powered machinery and ancillary equipment	Standard Q in conjunction with AS/NZS 4871.6:2013	Cited standard is current AS/NZS 4871.6:2013 <i>Electrical equipment for mines and quarries – Part 6: Diesel powered machinery and ancillary equipment</i>	Withdraw this standard – it is now duplicated below
Electrical wiring systems at extra-low voltage of earth-moving machinery and ancillary equipment for use in mines	AS 4242:1994	Cited edition of standard has been superseded AS/NZS 4871.6:2013 <i>Electrical equipment for mines and quarries – Part 6: Diesel powered machinery and ancillary equipment</i>	Immediate transition to latest standard
Conveyors	AS 1755:2000	Cited edition of standard has been superseded AS/NZS 4024.3610:2015 <i>Safety of machinery – Part 3610: Conveyors - General requirements</i>	Immediate transition to latest standard
Reeling and trailing cables (other than underground coal mining)	AS/NZS 2802:2000, including Amendment 1	Cited standard is current AS/NZS 2802:2000 <i>Electric cables - Reeling and trailing for mining and general use (other than underground coal mining)</i> Amendment 1 has been incorporated	No change
Electrical protection devices for mines and quarries	AS/NZS 2081:2011	Cited standard is current AS/NZS 2081:2011 <i>Electrical protection devices for mines and quarries</i>	No change
Remote controls for mining equipment	AS/NZS 4240.1:2009 Remote control systems for mining equipment – Design, construction, testing, installation and commissioning AS/NZS 4240.2:2009 Remote control systems	Cited standards are current AS/NZS 4240.1:2009 <i>Remote control systems for mining</i>	No change

Type	Applicable standard	Latest edition	Suggested change and rationale
	for mining equipment – Operation and maintenance for underground metalliferous mining AS/NZS 4240.3:2013 Remote control systems for mining equipment – Operation and maintenance for underground coal mining	<i>equipment – Design, construction, testing, installation and commissioning</i> AS/NZS 4240.2:2009 <i>Remote control systems for mining equipment - Operation and maintenance for underground metalliferous mining</i> AS/NZS 4240.3:2013 <i>Remote control systems for mining equipment - Part 3: Operation and maintenance for underground coal mining</i>	
Materials for insulating power conducting components	AS1147.1-1989	Cited standard is current AS1147.1-1989 <i>Electrical equipment for coal mines - Insulating materials - Materials for insulating power conducting components</i>	Withdraw this standard This “equipment type” is a sub component that will be cited in the principal standards

Clause 16

Beauty Therapy appliances

Type	Applicable standard	Latest Edition	Suggested change and rationale
Appliances for skin exposure to ultraviolet and infrared radiation	Standard A, or standard B, in conjunction with IEC 60335-2-27 Ed 5.0 as modified by AS/NZS 60335.2.27:2010	Cited standard has been withdrawn and replaced by: IEC 60335-2-27:2019 <i>Household and similar electrical appliances - Safety - Part 2-27: Particular requirements for appliances for skin exposure to optical radiation</i>	Immediate transition to latest edition as modified by Annex ZZ of AS/NZS 60335.2.27:2016 including Amendment 1 <i>Modification includes NZ limit for radiation and bans UV types 1, 4 and 5.</i> <i>Liaise with MOH re: sunbed ban.</i> This standard has been transferred from Household and similar appliances section.
Appliances for skin or hair care	Standard A, or standard B, in conjunction with IEC 60335-2-23 Ed 5.2 or Until 26/10/2014, standard A, or standard B, in conjunction with IEC 60335-2-23 Ed 5.1 as modified by Annex ZZ of AS/NZS 60335.2.23:2004, including Amendment 1	Cited edition of standard has been superseded. IEC 60335-2-23 Ed 6.1 (2019) <i>Household and similar electrical appliances - Safety - Part 2-23: Particular requirements for appliances for skin or hair care</i>	Immediate transition to: latest IEC edition Or IEC 60335-2-23 Ed 6.0 (2016) until 1 Jan 2024 This standard has been transferred from Household and similar appliances section.
Cosmetic and beauty care appliances incorporating lasers and intense light sources	New standard	IEC 60335-2-113 Ed 1.0 2016 <i>Household and similar electrical appliances - Safety - Part 2-113: Particular requirements for cosmetic and beauty care appliances incorporating lasers and intense light sources</i>	Immediate adoption of new standard – standard only came into existence in 2016 and addresses rising prominence of such equipment.
Shavers, hair clippers, and similar appliances	Standard A, or standard B, in conjunction with IEC 60335-2-8 Ed 5.2	Cited edition of standard has been superseded. IEC 60335-2-8 Ed 6.2 (2018) <i>Household and similar electrical appliances - Safety - Part 2-8: Particular requirements for shavers, hair clippers and similar appliances</i>	Immediate transition to: latest edition Or IEC 60335-2-8 Ed 6.1 (2015) to run until 1 Jan 2023

			<p>AS/NZS 60335.2.8:2013 Amendment 2 is proposed for publication 30/11/2019.</p> <p>This standard has been transferred from Household and similar appliances section</p>
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Clause 17

Electric Vehicles

Unless otherwise stated all standards in this section are new additions. This reflects the growing importance of and recent development in technology pertaining to electric vehicles. The combination of these standards provides a comprehensive basis to regulate the safety of Electric Vehicles and as such all are to be adopted with immediate effect.

Type	Applicable standard	Technical information	Suggested change and Rationale
Charging System Equipment	<p>UL 2202 Ed 2 (2009) <i>Standard for Electric Vehicle (EV) Charging System Equipment</i></p> <p>UL2202 In conjunction with UL 2231-1 and UL 2231-2 with the alterations that the device is certified to 230 V to earth, at 50 Hz on an MEN system of supply.</p> <p><i>UL 2231-1 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements</i></p> <p><i>UL 2231-2 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems</i></p>	<p>1.1 These requirements cover conductive charging system equipment intended to be supplied by a branch circuit of 600 volts or less for recharging the storage batteries in over-the-road electric vehicles (EV). The equipment includes off board and on board chargers. Off-board equipment may be considered for indoor use only or indoor/outdoor use. On board equipment is always considered outdoor use. Off board equipment is intended to be installed in accordance with the National Electrical Code, NFPA 70.</p> <p>1.1 revised October 5, 2012</p> <p>1.2 For the purposes of this standard, the term “electric vehicle”, designated throughout by the initials “EV”, is considered to cover electric vehicles, hybrid electric vehicles, and plug-in versions of these vehicles.</p> <p>1.3 Electric vehicle charging system</p>	Please see attached summary document

		<p>equipment that is not a complete assembly and depends upon installation in an end product for compliance with the requirements in this standard is investigated under the requirements of this standard and the standard for the end product. On board chargers that rely upon specific installation requirements within an EV for compliance with the requirements in this standard, are to be evaluated based on those installation requirements and equipment.</p> <p>1.3 revised October 5, 2012</p> <p>1.4 These requirements do not cover battery chargers covered by the Standard for Battery Chargers for Charging Engine-Starter Batteries, UL 1236, or the Standard for Industrial Battery Chargers, UL 1564.</p> <p>1.5 The requirements for devices or systems intended to reduce the risk of electric shock to the user in grounded or isolated circuits for charging electric vehicles are covered in the Standard for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 1: General Requirements, UL 2231-1, and the Standard for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits; Part 2: Particular Requirements for Protective Devices for Use in Charging Systems, UL 2231-2.</p> <p>1.6 The requirements in clauses 2 – 84 apply directly to off board charging equipment. Supplement SA applies directly to on board charging equipment.</p> <p>1.6 added April 22, 2011</p>	
Conductive charging system -	IEC 61851-1 Ed 3.0 (2017) <i>Electric vehicle conductive charging system - Part 1: General requirements</i>	Applies to EV supply equipment for charging electric road vehicles, with a rated supply voltage up to 1 000 V AC or up to 1 500 V DC and a rated output voltage up to 1 000 V AC or up to 1 500 V DC. Electric road vehicles (EV) cover all road vehicles, including plug-in	

		<p>hybrid road vehicles (PHEV), that derive all or part of their energy from on-board rechargeable energy storage systems (RESS). The aspects covered in this standard include:</p> <ul style="list-style-type: none"> - the characteristics and operating conditions of the EV supply equipment; - the specification of the connection between the EV supply equipment and the EV; - the requirements for electrical safety for the EV supply equipment. <p>This third edition cancels and replaces the second edition published in 2010. It constitutes a technical revision.</p> <p>This edition includes the following significant technical changes with respect to the previous edition:</p> <ul style="list-style-type: none"> a) The contents of IEC 61851-1:2010 have been re-ordered. Numbering of clauses has changed as new clauses were introduced and some contents moved for easy reading. The following lines give an insight to the new ordering in addition to the main technical changes. b) All requirements from IEC 61851-22 have been moved to this standard, as work on IEC 61851-22 has ceased. c) Any requirements that concern EMC have been removed from the text and are expected to be part of the future version of 61851-21-2. d) Clause 4 contains the original text from IEC 61851-1:2010 and all general requirements from Clause 6 of IEC 61851-1:2010. e) Clause 5 has been introduced to provide classifications for EV supply equipment. f) Previous general requirements of Clause 6 have been integrated into Clause 4. Clause 6 	
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		<p>contains all Mode descriptions and control requirements. Specific requirements for the combined use of AC and DC on the same contacts are included.</p> <p>g) Clause 9 is derived from previous Clause 8. Adaptation of the description of DC accessories to allow for the DC charging modes that have only recently been proposed by industry and based on the standards IEC 61851-23, IEC 61851-24 as well as IEC 62196-1, IEC 62196-2 and IEC 62196-3. Information and tables contained in the IEC 62196 series standards have been removed from this standard.</p> <p>h) Clause 10 specifically concerns the requirements for adaptors, initially in Clause 6.</p> <p>i) Clause 11 includes new requirements for the protection of the cable.</p> <p>j) Specific requirements for equipment that is not covered in the IEC 62752 remain in the present document.</p> <p>k) Previous Clause 11 is now treated in Clauses 12 to 13. The requirements in 61851-1 cover the EV supply equipment of both mode 2 and mode 3 types, with the exception in-cable control and protection devices for mode 2 charging of electric road vehicles (IC-CPD) which are covered by IEC 62752.</p> <p>l) Clause 14 gives requirements on automatic reclosing of protection equipment.</p> <p>m) Clause 16 gives requirements for the marking of equipment and the contents of the installation and user manual. This makes specific mention of the need to maintain coherence with the standards for the fixed installation. It also contains an important text on the markings for temperature ratings.</p>	
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<p>Connection to an external electric power supply – Safety requirements</p>	<p>ISO 17409:2015 <i>Electrically propelled road vehicles – connection to an external electric power supply – Safety requirements</i></p>	<p>Specifies electric safety requirements for conductive connections of electrically propelled road vehicles to an external electric power supply using a plug or vehicle inlet.</p> <p>It applies to electrically propelled road vehicles with voltage class B electric circuits. In general, it may apply to motorcycles and mopeds if no dedicated standards for these vehicles exist.</p> <p>It applies only to vehicle power supply circuits. It applies also to dedicated power supply control functions used for the</p>	

		<p>connection of the vehicle to an external electric power supply.</p> <p>It does not provide requirements regarding the connection to a non-isolated d.c. charging station.</p> <p>It does not provide comprehensive safety information for manufacturing, maintenance, and repair personnel.</p> <p>The requirements when the vehicle is not connected to the external electric power supply are specified in ISO 6469-3.</p> <p>NOTE 1 This International Standard does not contain requirements for vehicle power supply circuits using protection by class II or double/reinforced insulation but it is not the intention to exclude such vehicle applications.</p> <p>NOTE 2 Requirements for EV supply equipment are specified in IEC 61851.</p> <p>A revised edition is currently being voted on.</p>	
DC electric vehicle charging station	IEC 61851-23 Ed 1.0 (2014) <i>Electric vehicle conductive charging system - Part 23: DC electric vehicle charging station</i>	<p>Gives the requirements for d.c. electric vehicle (EV) charging stations, herein also referred to as "DC charger", for conductive connection to the vehicle, with an a.c. or d.c. input voltage up to 1 000 V a.c. and up to 1 500 V d.c. according to IEC 60038. It provides the general requirements for the control communication between a d.c. EV charging station and an EV. The requirements for digital communication between d.c. EV charging station and electric vehicle for control of d.c. charging are defined in IEC 61851-24.</p> <p>Due to further technical developments in the</p>	

		<p>field of electric vehicles charging, the requirements in IEC 61851-23:2014 to fulfil the safety objective "protection against electric shock" under single fault condition by limiting the capacitance energy, may not cover all possible combinations of charging stations and vehicles. Since the charging process links the charging infrastructure with the electric vehicle, the requirements laid down in ISO 17409:2015 are also relevant for the electrical safety of the charging process. The approach of limiting the capacitance energy will not be sufficient for the safety objective "protection against electric shock" under single fault condition in all relevant cases. Therefore, this warning is issued for both standards. It is as always strongly recommended that users of standards additionally perform a risk assessment. Specifically in this case, standards users shall select proper means to fulfil safety requirements in the system of charging station and electric vehicle. This publication is to be read in conjunction with IEC 61851-1:2010. The contents of the corrigendum of May 2016 have been included in this copy.</p>	
<p>Electric vehicle wireless power transfer (WPT) systems - Part 1: General requirements</p>	<p>IEC 61980-1 Ed 1.0 (2015) <i>Electric vehicle wireless power transfer (WPT) systems - Part 1: General requirements</i></p>	<p>Applies to the equipment for the wireless transfer of electric power from the supply network to electric road vehicles for purposes of supplying electric energy to the RESS (Rechargeable energy storage system) and/or other on-board electrical systems in an operational state when connected to the supply network, at standard supply voltages ratings per IEC 60038 up to 1 000 V a.c. and up to 1 500 V d.c. This standard also applies to Wireless Power Transfer (WPT) equipment supplied from on-site storage systems (e.g. buffer batteries, etc.).</p>	

		This publication is to be read in conjunction with the IEC 61980 series. The contents of the corrigendum of January 2017 have been included in this copy.	
In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)	IEC 62752 Ed 1.1 (2018) In-cable control and protection device for mode 2 charging of electric road vehicles (IC-CPD)	Applies to in-cable control and protection devices (IC-CPDs) for mode 2 charging of electric road vehicles, hereafter referred to as IC-CPD including control and safety functions. This standard applies to portable devices performing simultaneously the functions of detection of the residual current, of comparison of the value of this current with the residual operating value and of opening of the protected circuit when the residual current exceeds this value. This consolidated version consists of the first edition (2016) and its amendment 1 (2018). Therefore, no need to order amendment in addition to this publication.	
Plugs, Receptacles, and Couplers for Electric Vehicles	UL 2251 ED 4 (2017) <i>Standard for Plugs, Receptacles, and Couplers for Electric Vehicles</i>	1.1 These requirements cover EV plugs, EV receptacles, vehicle inlets, vehicle connectors, and EV breakaway couplings, rated up to 800 amperes and up to 600 volts ac or dc. These devices are intended for use with conductive electric vehicle supply equipment (EVSE), and are intended to facilitate the conductive connection from the EVSE to the vehicle. These devices are for use in either indoor or outdoor non-hazardous locations in accordance with Annex A, Ref. No. 1. 1.2 This Standard does not directly apply to any device that is not intended for use as described in 1.1. 1.3 In the text of this Standard, the term "device" refers to any product covered by this Standard. The letters "EV" refer to an electric vehicle, including plug-in hybrid vehicles, hybrid vehicles, electric vehicles, battery electric vehicles, and similar vehicles.	

<p>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements</p>	<p>IEC 62196-1 Ed 3.0 (2014) <i>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 1: General requirements</i></p>	<p>Applicable to plugs, socket-outlets, vehicle connectors, vehicle inlets and cable assemblies for electric vehicles, herein referred to as "accessories", intended for use in conductive charging systems which incorporate control means, with a rated operating voltage not exceeding:</p> <ul style="list-style-type: none"> - 690 V a.c. 50 Hz to 60 Hz, at a rated current not exceeding 250 A; - 1 500 V d.c. at a rated current not exceeding 400 A. <p>This third edition cancels and replaces the second edition published in 2011 and constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:</p> <ul style="list-style-type: none"> a) addition of a preferred operating voltage of 1 000 V d.c.; b) addition of a preferred rated current of 80 A d.c.; c) addition of a provision for a combined interface a.c./d.c.; d) description of d.c. configurations (previously under consideration); e) addition of requirements pertaining to the locking mechanism, the interlock and the latching device; f) addition of a test for accessories not suitable for making and breaking an electrical circuit under load; g) Addition of requirements and tests for insulated end caps. <p>Note: ed2.0 is already cited in schedule 4</p>	<p>This standard was previously in the low-voltage equipment section.</p>
<p>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories</p>	<p>IEC 62196-2 Ed 2.0 (2016) <i>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 2: Dimensional compatibility and interchangeability requirements for a.c. pin and contact-tube accessories</i></p>	<p>Applies to plugs, socket-outlets, vehicle connectors and vehicle inlets with pins and contact-tubes of standardized configurations, herein referred to as accessories. They have a nominal rated operating voltage not exceeding 480 V a.c., 50 Hz to 60 Hz, and a rated current not exceeding 63 A three-</p>	

		<p>phase or 70 A single phase, for use in conductive charging of electric vehicles. This second edition cancels and replaces the first edition published in 2011 and constitutes a technical revision. This second edition includes the following significant technical changes with respect to the previous edition.</p> <p>a) Standard sheets for configurations type 2 and type 3 have been updated.</p> <p>b) Configuration type 2 is now available with optional shutter. This publication is to be read in conjunction with IEC 62196-1:2014.</p>	
Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for d.c. and a.c./d.c. pin and contact-tube vehicle couplers	<p>IEC 62196-3 Ed 1.0 (2014)</p> <p><i>Plugs, socket-outlets, vehicle connectors and vehicle inlets - Conductive charging of electric vehicles - Part 3: Dimensional compatibility and interchangeability requirements for d.c. and a.c./d.c. pin and contact-tube vehicle couplers</i></p>	<p>Applicable to vehicle couplers with pins and contact-tubes of standardized configuration, herein also referred to as "accessories", intended for use in electric vehicle conductive charging systems which incorporate control means, with rated operating voltage up to 1 500 V d.c. and rated current up to 250 A, and 1 000 V a.c. and rated current up to 250 A. This part of IEC 62196 applies to high power d.c. interfaces and combined a.c./d.c. interfaces of vehicle couplers specified in IEC 62196-1:2014, and intended for use in conductive charging systems for circuits specified in IEC 61851-1:2010, and IEC 61851-23:2014. This publication is to be read in conjunction with IEC 62196-1:2014.</p>	
Residual Direct current detecting devices	<p>IEC 62955 Ed 1.0 (2018)</p> <p>Residual direct current detecting device (RDC-DD) to be used for mode 3 charging of electrical vehicles</p>	<p>Applies to residual direct current detecting devices (RDC-DD) for permanently connected AC electric vehicle charging stations (mode 3 charging of electric vehicles, according to IEC 61851-1 and IEC 60364-7-722), hereafter referred to as RDC-MD (residual direct current monitoring device) or RDC-PD (residual direct current protective device), for rated voltages not exceeding 440 V AC with rated frequencies of 50 Hz, 60 Hz or</p>	

		50/60 Hz and rated currents not exceeding 125 A.	
Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements	<p><i>UL 2231-1 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements</i></p> <p>UL2594 In conjunction with UL 2231-1 and UL 2231-2 with the alterations that the device is certified to 230 V to earth, at 50 Hz on an MEN system of supply.</p> <p><i>UL 2594 ED 2 (2016)</i> <i>Standard for Electric Vehicle Supply Equipment</i></p> <p><i>UL 2231-2 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems</i></p>	<p>1.1 These requirements cover devices and systems intended for use in accordance with Annex a, Ref. No. 1, to reduce the risk of electric shock to the user from accessible parts, in grounded or isolated circuits for charging electric vehicles. These circuits are external to or on board the vehicle.</p> <p>1.2 The devices and systems covered by these requirements are compatible with the designs of charging systems and vehicles where use is intended and are rated accordingly. To assure compatibility, the charging system, the vehicle, or both, are in accordance with the features contained in 1.3 – 1.5.</p> <p>1.3 The type of vehicle covered by these requirements, including all accessible conductive parts on the vehicle, has one or more of the following:</p> <ul style="list-style-type: none"> a) Provision for the connection of an equipment grounding conductor during battery charging, unless the vehicle has a system of reinforced or double insulation or all of the circuitry on the vehicle is electrically isolated from the supply circuit, b) Provision for the connection of ground-monitoring conductors, where required, c) Reinforced insulation, or is double-insulated from the supply circuit, or d) No direct connection between current-carrying conductors and the vehicle chassis. <p>1.4 These requirements cover devices and systems where the grounding path impedance of the charging system to the vehicle is less than or equal to the impedance of the ungrounded conductor or conductors.</p> <p>1.5 These requirements cover devices and</p>	

		<p>systems where a continuous current less than 70 mA RMS is available from any accessible part of the charging system.</p> <p>1.6 Devices covered by these requirements are intended to interrupt the electric circuit to the load when:</p> <ul style="list-style-type: none"> a) A fault current to ground exceeds some predetermined value that is less than that required to operate the overcurrent protective device of the supply circuit, b) The grounding path becomes open-circuited or becomes an excessively high impedance, or c) A path to ground is detected on an isolated (ungrounded) system. <p>1.7 These devices and systems are intended to be applied on electrical systems or include derived systems that are:</p> <ul style="list-style-type: none"> a) Either end-grounded or centrally grounded when the operating voltage is 150 Vrms or less, b) Centrally grounded when the operating voltage is greater than 150 Vrms, or c) Isolated (ungrounded). <p>1.8 Charging circuit-interrupting devices covered by these requirements are investigated for their ability to provide protection based on:</p> <ul style="list-style-type: none"> a) The type of current (60 Hz AC, DC, a combination of AC and DC, or AC at frequencies greater than 60 Hz) present in the circuit to be protected, and b) Voltage. <p>1.9 In Mexico and the US, these requirements do not cover ground-fault circuit-interrupters (GFCIs) intended for use as personnel protection in accordance with the national electrical codes on grounded 120 Vrms or 127 Vrms to ground, 60 Hz circuits. Such devices are covered under</p>	
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		<p>Annex a, Ref. No. 2.</p> <p>In Canada, these requirements do not cover ground-fault circuit-interrupters (GFCIs) in accordance with the national electrical code on grounded 120 Vrms or 127 Vrms to ground, 60 Hz circuits. Such devices are covered under Annex a, Ref. No. 2.</p> <p>1.10 This Standard includes the Scope, Definitions, and Description of Requirements, including the required features of protection systems. The standards in Annex a, Ref. No. 3 contain the Performance and Construction requirements for protective devices that would become a part of a charging system.</p>	
Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems	<p><i>UL 2231-2 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: Particular Requirements for Protection Devices for Use in Charging Systems</i></p>	<p>This Standard is intended to be used in conjunction with the general requirements of Annex a, Ref. No. 1. The requirements of Annex a, Ref. No. 1 apply unless modified by this Standard.</p>	
Supply Equipment	<p>UL 2594 ED 2 (2016) <i>Standard for Electric Vehicle Supply Equipment</i></p> <p>UL2594 In conjunction with UL 2231-1 and UL 2231-2 with the alterations that the device is certified to 230 V to earth, at 50 Hz on an MEN system of supply.</p> <p><i>UL 2231-1 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply Circuits: General Requirements</i></p> <p><i>UL 2231-2 Ed 2 (2012)</i> <i>Standard for Safety for Personnel Protection Systems for Electric Vehicle (EV) Supply</i></p>	<p>1.1 This Standard covers conductive electric vehicle (EV) supply equipment with a primary source voltage of 600 V ac or less, with a frequency of 50 or 60 Hz, and intended to provide ac power to an electric vehicle with an on-board charging unit. This Standard covers electric vehicle supply equipment intended for use where ventilation is not required.</p> <p>1.2 With reference to 1.1, the following list of examples of electric vehicle supply equipment are included in this Standard:</p> <ul style="list-style-type: none"> a) EV Cord Sets – Rated 125 Vac maximum, 16 A maximum, intended for indoor and outdoor use; b) Fastened in place EV Charging Stations – Rated 250 Vac maximum, 40 A maximum, intended for indoor or outdoor use; c) Fixed in place EV Charging Stations – 	

	<p><i>Circuits: Particular Requirements for Protection Devices for Use in Charging Systems</i></p>	<p>Rated 600 Vac maximum, intended for indoor or indoor/outdoor use; and</p> <p>d) Fixed in place EV Power Outlet – Rated 600 Vac maximum, intended for indoor or indoor/outdoor use.</p> <p>For Mexico, use 127 Vac where 120 or 125 Vac is referenced in this Standard. In Canada and the United States, this does not apply.</p> <p>1.3 The products covered by this Standard are intended for use in accordance with the Installation Codes in Annex A, Ref. No.1.</p> <p>1.4 This Standard does not cover cord sets or power supply cords for applications other than EV charging cord sets. For cord sets and power supply cords not covered by this Standard, refer to Annex A, Ref. No. 2 and No. 3.</p> <p>1.5 With reference to 1.2, this Standard does not cover electric vehicle charging equipment. For EV charging equipment not covered by this Standard, refer to Annex A, Ref. No. 4.</p> <p>1.6 This Standard does not cover electric vehicle connectors. For electric vehicle connectors not covered by this Standard, refer to Annex A, Ref. No. 5</p> <p>1.7 This Standard does not cover regular-use power outlets. For regular-use power outlets not covered by this Standard, refer to Annex A, Ref. No. 6.</p> <p>1.8 This Standard does not cover equipment intended for wireless power transfer, which may also be designated as wireless charging, inductive charging, magnetic resonance charging, or any other similar designation indicating the transfer of power from the EVSE to the vehicle through other than a conductive connection.</p>	
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