

South Australia

Electricity (General) Variation Regulations 2004

under the *Electricity Act 1996*

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Part 1—Preliminary

1—Short title

These regulations may be cited as the *Electricity (General) Variation Regulations 2004*.

2—Commencement

These regulations come into operation on the day on which they are made.

3—Variation provisions

In these regulations, a provision under a heading referring to the variation of specified regulations varies the regulations so specified.

Part 2—Variation of *Electricity (General) Regulations 1997*

4—Variation of regulation 4—Interpretation

- (1) Regulation 4(1), definition of *AS* or *Australian Standard*—delete the definition and substitute:

AS or *Australian Standard*, followed by a number, or *AS/NZS* or *Australian/New Zealand Standard* followed by a number, is a reference to the standard published by Standards Australia as in force from time to time;
centre-line, in relation to an aerial line, means a notional vertical plane extending upwards from any point on the ground and running through, and connecting, the centre of each structure that supports the aerial line;

- (2) Regulation 4(1)—after the definition of *connection point* insert:

facade mounted line means an aerial line attached to a building;

- (3) Regulation 4(1), definition of *low voltage* or *LV*—delete "AS" and substitute:

AS/NZS

- (4) Regulation 4(1), definition of *multiple earthed neutral system* or *MEN system*—delete "AS" and substitute:

AS/NZS

- (5) Regulation 4(2)—delete subregulation (2)

- (6) Regulation 4(4)—delete "subregulations (2) and (3)" and substitute:

subregulation (3)

5—Insertion of regulation 5AC

After regulation 5AB insert:

5AC—Compliance with standards that are varied or substituted

- (1) Despite a requirement of these regulations for work to be carried out in accordance with a standard as in force from time to time, where the standard is varied or substituted, work for the installation, commissioning or modification of electricity infrastructure or an electrical installation may be carried out in accordance with the old standard—
- (a) if—
- (i) design work for that installation, commissioning or modification had been completed before (but not more than 1 month before) the publication of the new standard; or
 - (ii) the work (disregarding design or other preparatory work) had commenced before the publication of the new standard; or

- (iii) the work commenced after the publication of the new standard and is to be completed within 6 months after that publication; or
 - (iv) the work is connected with the construction of premises and construction work had commenced before the publication of the new standard; or
 - (b) in any other case—with the approval of the Technical Regulator, on terms and conditions the Technical Regulator considers appropriate.
- (2) If—
 - (a) pursuant to subregulation (1) work is purportedly carried out in accordance with an old standard; and
 - (b) the work complies with that old standard,an approval or certification that the work complies with the standard may be given for the purposes of these regulations.
- (3) In this regulation—
 - (a) a reference to a **standard** includes a reference to—
 - (i) a code, guide or other document; and
 - (ii) a part of a standard, code, guide or other document; and
 - (b) a standard as in force following the variation or substitution of the standard is referred to as the **new standard**; and
 - (c) a standard as in force immediately prior to the variation or substitution of the standard is referred to as the **old standard**; and
 - (d) a reference to **work** includes a reference to examinations and tests related to the work.
- (4) This regulation does not apply in relation to the National Electricity Code or a code made by the Commission under the *Essential Services Commission Act 2002*.

6—Variation of regulation 6—Exemptions from requirement to be licensed

Regulation 6(6)—delete subregulation (6) and substitute:

- (6) An exemption from subregulation (5), or from specified requirements referred to in that subregulation, may be granted by—
 - (a) in relation to Part 6 of the Act or Parts 4, 5 and 6 of these regulations or any safety requirement—the Technical Regulator, on terms and conditions the Technical Regulator considers appropriate; or
 - (b) in any other case—the Commission, on terms and conditions the Commission considers appropriate.

7—Variation of regulation 17—Electrical installations

- (1) Regulation 17—delete "AS" wherever occurring and substitute in each case:
AS/NZS
- (2) Regulation 17—after "Australian Standard" insert:
or Australian/New Zealand Standard
- (3) Regulation 17—after its present contents as amended by this regulation (now to be designated as subregulation (1)) insert:
 - (2) Despite any other regulation—
 - (a) aerial lines, underground lines or other powerlines; and
 - (b) earthing and electrical protection systems,that form part of an electrical installation and that comply with AS/NZS 3000 and any other Australian Standard or Australian/New Zealand Standard called up by AS/NZS 3000, will be taken to comply with these regulations.

8—Variation of regulation 18—Certain electrical installation work and certificates of compliance

- (1) Regulation 18(1)(a)—delete "AS" wherever occurring and substitute in each case:
AS/NZS
- (2) Regulation 18(1)(a)—after "Australian Standard" wherever occurring insert in each case:
or Australian/New Zealand Standard

9—Substitution of heading to Part 4 Division 5

Heading to Part 4 Division 5—delete the heading and substitute:

Division 5—Safety, reliability, maintenance and technical management plans and reports

10—Variation of regulations 31C—Safety, reliability, maintenance and technical management plans

Regulation 31C—delete "safety and technical management plan" wherever occurring and substitute in each case:

safety, reliability, maintenance and technical management plan

11—Variation of regulation 31D—Safety, reliability, maintenance and technical management reports

- (1) Regulation 31D(2)—delete "Subclause" and substitute:
Subregulation
- (2) Regulation 31D(3)(c)—delete "safety and technical management plan" and substitute:
safety, reliability, maintenance and technical management plan

(3) Regulation 31D—after subregulation (3) insert:

- (4) However, this regulation only applies to a person who is exempted from the requirement to hold a licence to the extent specified by the Technical Regulator by notice in writing to the person.

12—Variation of regulation 39—Erection of buildings in proximity to aerial lines

(1) Regulation 39(1)—delete subregulation (1) and substitute:

- (1) For the purposes of section 86 of the Act, a person must not, except as approved by the Technical Regulator, erect a building or structure in proximity to an aerial line as follows:
- (a) in the case of an aerial line (other than a facade mounted line) constructed to operate at a voltage of more than 33kV—
- (i) under the aerial line; or
- (ii) so that the horizontal distance from any part of the building or structure to the centre-line of any such aerial line is less than the relevant distance as set out in Table 1 in Schedule 2;
- (b) in the case of an aerial line (other than a facade mounted line) or other cable system constructed to operate at a voltage of 33kV or less—so that the vertical or horizontal distance from any part of the building or structure to any position to which a conductor in the aerial line or other cable system may sag at maximum design temperature, or move as a result of normal prevailing wind pressures, is less than the relevant distance as set out in Table 1 in Schedule 2.

Note—

The figures following Table 1 are to be used to assist in understanding the information contained in the Table.

(2) Regulation 39(1a)—delete "subregulation (1)(b)" and substitute:

subregulation (1)

13—Variation of Schedule 2—Requirements for aerial lines

(1) Schedule 2, clause 10(4)(a) to (c)—delete paragraphs (a) to (c) and substitute:

- (a) for an aerial line (other than a facade mounted line) constructed to operate at a voltage of 33kV or less—so that the vertical or horizontal distance from any building or structure (other than a support to which the aerial line is attached or a support of another overhead line which crosses the aerial line) to any position to which a conductor in the aerial line may sag at maximum design temperature, or move as a result of normal prevailing wind pressures, is not less than the relevant distance as set out in Table 1;

Note—

The figures following Table 1 are to be used to assist in understanding the information contained in the Table.

- (ab) for an aerial line (other than a facade mounted line) constructed to operate at a voltage of more than 33kV—so that the horizontal distance from any building or structure (other than a support to which the aerial line is attached or a support of another overhead line which crosses the aerial line) to the centre-line of the aerial line is not less than the relevant distance as set out in Table 1;

Note—

The figures following Table 1 are to be used to assist in understanding the information contained in the Table.

- (b) for an aerial line (other than a service line, other cable system or aerial line within a substation)—so that the distance to the ground in any direction from a position to which any part of the aerial line may sag at maximum design temperature, or move as a result of normal prevailing wind pressures, is not less than the relevant distance as set out in Table 2;
- (c) for a service line or other cable system—so that the distance to the ground in any direction from a position to which any part of the service line or cable system may sag at maximum design temperature, or move as a result of normal prevailing wind pressures, is not less than the relevant distance as set out in Table 3;

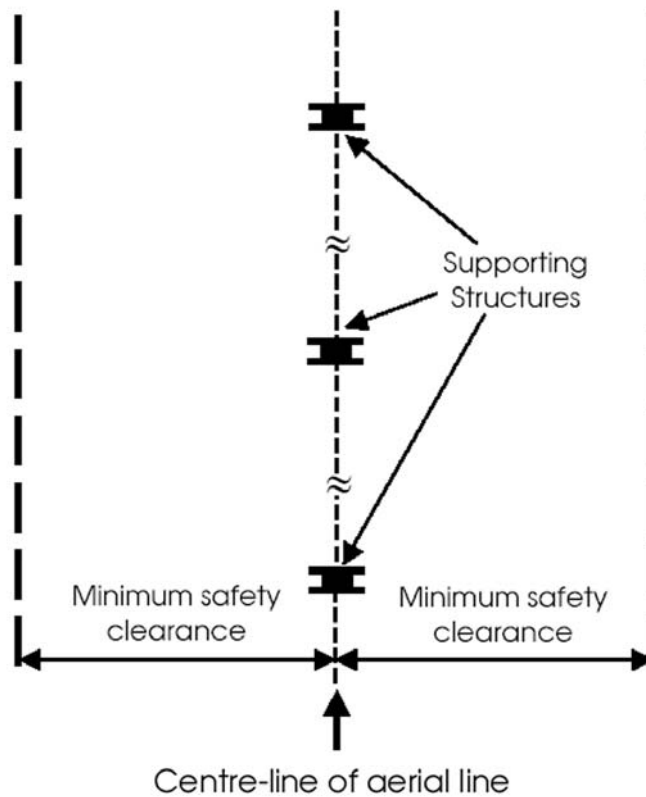
- (2) Schedule 2, clause 13, table 1—delete "from centre of pole" and substitute:
from centre-line of aerial line
- (3) Schedule 2, clause 13, table 1—delete "In any other direction" and substitute:
Horizontally
- (4) Schedule 2, clause 13, table 1—delete "In any direction" first occurring and substitute:
Horizontally
- (5) Schedule 2, clause 13, table 1—delete "(G)"
- (6) Schedule 2, clause 13, figure 1 (following table 1)—delete everything relating to figure 1 and substitute:

Table 1 figures—

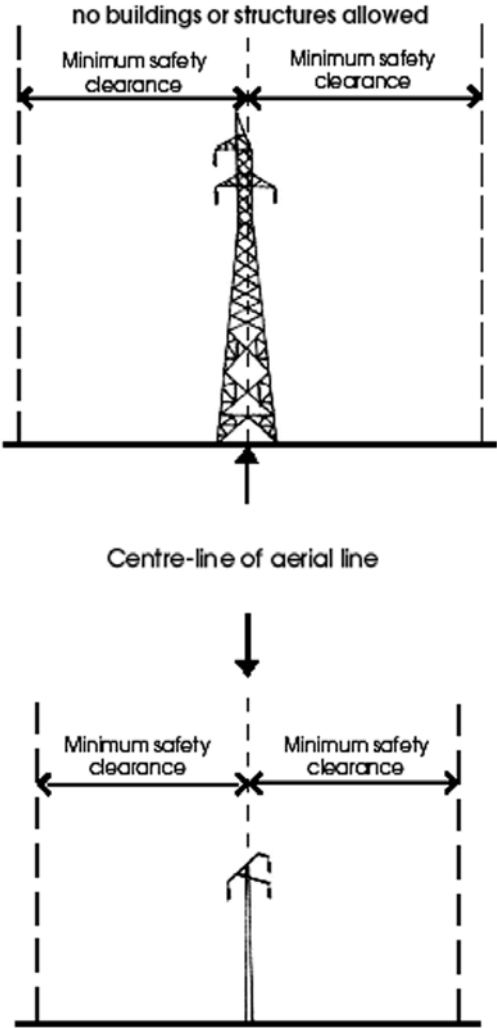
- 1 Figures (a) and (b) will assist in understanding the required minimum safety clearance for aerial lines constructed to operate at a voltage of more than 33kV.
- 2 Figure (c) will assist in understanding the required minimum safety clearance for aerial lines constructed to operate at a voltage of 33kV or less (that is, minimum safety clearance from nearest conductor (maximum swing and sag)).

(a)

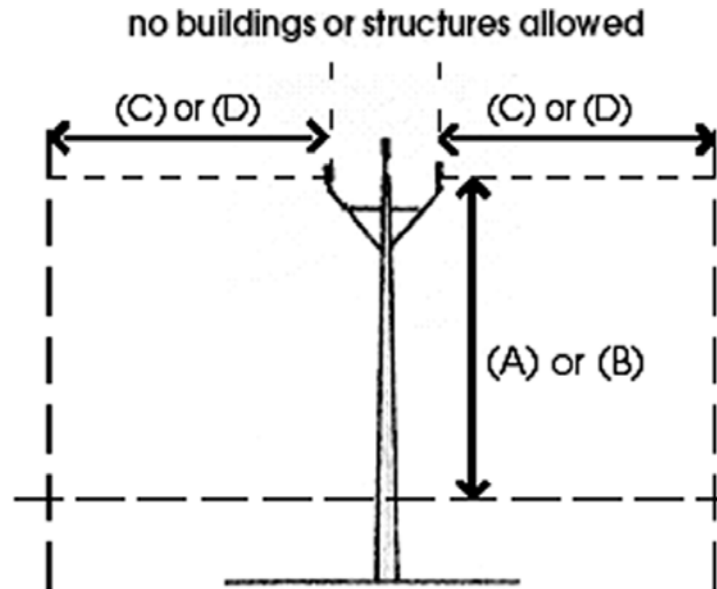
Aerial view of centre-line of aerial line



(b)



(c)



Vertical dimension (A) applies, for example to:

- Balconies
- Terraces
- Walkways
- Bridges
- Scaffolds

Vertical dimension (B) applies in relation to things such as:

- Roofs with a slope of less than 45°
- Parapets wider than 0.1 metre
- Pergolas
- Carports

Horizontal dimension (C) applies to the same as (A) and (B).

Horizontal dimension (D) applies in relation to things such as:

- Roofs with a slope of 45° or more
- Flag Poles
- Light poles

- (7) Schedule 2, clause 13, heading to figure 2—delete the heading to figure 2 and substitute:

Table 4 figures—

- (8) Schedule 2, clause 13, figure 2—delete "Figure 2 is to be used" and substitute:

The following figures will assist

- (9) Schedule 2, appendix—delete the appendix and substitute:

Appendix—Standards, codes, guides and other documents relating to aerial lines

In this Appendix—

ESAA means Electricity Supply Association of Australia.

Conductors

Conductor - Bare overhead - Hard - drawn copper..... AS 1746

Conductor - Bare overhead - Aluminium and aluminium alloy.... AS 1531

Conductor - Bare overhead, aluminium and aluminium alloy - Steel reinforced	AS 3607
Steel conductors and stays - Bare overhead - Galvanised (SC/GZ).....	AS 1222
Steel conductors and stays - Bare overhead - Aluminium clad (SC/AC).....	AS 1222
Galvanised steel wire strand.....	AS 2841
Insulated cables	
Electric cables - Polymeric insulated - For working voltages up to and including 0.6/1(1.2)kV	AS/NZS 5000
Electric cables - Polymeric insulated - For distribution and service applications	AS/NZS 4961
Electric cables - Cross-linked polyethylene insulated - Aerial bundled - For working voltages up to and including 0.6/1(1.2)kV	AS/NZS 3560
Mechanical fittings for low voltage aerial bundled cable.....	AS 3766
Electric cables - Aerial bundled - Polymeric insulated - Voltages 6.35/11(12)kV and 12.7/22(24)kV - Metallic screened.....	AS/NZS 3599
Electric cables - Aerial bundled - Polymeric insulated - Voltages 6.35/11(12)kV and 12.7/22(24)kV - Non-metallic screened.....	AS/NZS 3599
Conductors - Covered overhead - For working voltages 6.35/11(12)kV up to and including 19/33(36)kV	AS/NZS 3675
Insulators	
Insulators - Ceramic or glass - Station post for indoor and outdoor use - Voltages greater than 1000V ac.....	AS 4398
Insulators - Porcelain and glass for overhead powerlines - Voltages greater than 1000V ac - Test methods - Insulator units	AS/NZS 2947
Insulators - Porcelain and glass for overhead powerlines - Voltages greater than 1000V ac	AS/NZS 2947
Insulators - Porcelain and glass for overhead powerlines - Voltages greater than 1000V ac - Couplings.....	AS 2947
Insulators - Porcelain and glass for overhead powerlines - Voltages greater than 1000V ac - Test methods - Insulator strings and insulator sets.....	AS/NZS 2947
Insulators - Porcelain and glass, pin and shackle type - Voltages not exceeding 1000V ac	AS 3608
Insulators - Porcelain stay type - Voltages greater than 1000V ac	AS 3609
Guidelines for the design and maintenance of overhead distribution and transmission lines—	
Selection	ESAA C(b)1

Insulator and conductor fittings

Insulator and conductor fittings for overhead powerlines -
Performance, material, general requirements and dimensions..... AS 1154

Insulator and conductor fittings for overhead powerlines -
Performance and general requirements for helical fittings AS 1154

Thermal limits

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

 Thermal limits..... ESAA C(b)1

Current rating of bare overhead line conductors..... ESAA D(b)5

Short circuit capacity

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

 Fault ratings ESAA C(b)1

Mechanical loading conditions

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

 Mechanical loading conditions ESAA C(b)1

Structural design actions - General principles AS/NZS 1170

Structural design actions - Permanent, imposed and other
actions..... AS/NZS 1170

Structural design actions - Wind actions AS/NZS 1170

Minimum design loads on structures (known as the SAA
Loading Code) - Earthquake loads AS 1170

Conductor tensions

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

 General..... ESAA C(b)1

 Calculations ESAA C(b)1

Structures and footings

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

 General..... ESAA C(b)1

Methods of testing soils for engineering purposes..... AS 1289 Series

Piling - Design and installation..... AS 2159

Design of steel lattice towers and masts AS 3995

Steel structures..... AS 4100

Concrete structures AS 3600

Clearances from ground

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

Environmental and loading conditions ESAA C(b)1

Clearances from structures

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

Environmental and loading conditions ESAA C(b)1

Spacing of conductors

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

Clearances ESAA C(b)1

Environmental and loading conditions ESAA C(b)1

Maintenance

Guidelines for the design and maintenance of overhead
distribution and transmission lines—

Maintenance and inspection procedures ESAA C(b)1

**14—Variation of Schedule 3—Requirements for underground lines and certain
other powerlines**

- (1) Schedule 3, clause 2—delete paragraph (d) and substitute:
 - (d) the required clearances between a building or structure and an underground powerline as prescribed by regulation 39A are maintained,
- (2) Schedule 3, clause 7(2)(a)—delete "AS 1480" and substitute:

AS 3600
- (3) Schedule 3, clause 7(2)(b)—delete "AS 1480" and substitute:

AS 3600
- (4) Schedule 3, clause 7(3)—delete "AS 2053" and substitute:

AS/NZS 2053
- (5) Schedule 3, clause 8(2)(a)—delete "AS 1650" and substitute:

AS/NZS 4680, AS/NZS 4791 or AS/NZS 4792
- (6) Schedule 3, clause 8(3)(a)—delete "AS 2607" and substitute:

AS 2067

- (7) Schedule 3, appendix—delete the appendix and substitute:

Appendix—Standards, codes, guides and other documents relating to underground lines

In this Appendix—

ANSI means American National Standards Institute;

ESAA means Electricity Supply Association of Australia;

IEC means International Electrotechnical Commission;

IEEE means Institute of Electrical and Electronic Engineers.

High voltage cables

Electric cables - Polymeric insulated - For working voltages 1.9/3.3(3.6)kV up to and including 19/33(36)kV AS/NZS 1429

Electric cables - Impregnated paper insulated - For working voltages up to and including 19/33(36)kV AS/NZS 1026

Electric cables - For underground residential distribution systems AS/NZS 4026

Power cables with extruded insulation and their accessories for rated voltages from 1kV up to 30kV IEC 60502

Power cables with extruded insulation and their accessories for rated voltages above 30kV up to 150kV - Test methods and requirements IEC 60840

Low voltage cables

Electric cables - Impregnated paper insulated - For working voltages up to and including 19/33(36)kV AS/NZS 1026

Conductors in insulated electric cables and flexible cords AS/NZS 1125

Electric cables - Polymeric insulated - For distribution and service applications AS/NZS 4961

Electric cables - Polymeric insulated - For working voltages up to and including 0.6/1(1.2)kV AS/NZS 5000

Electric cables - For underground residential distribution systems AS/NZS 4026

High voltage cable accessories

High Voltage Cable Terminations ANSI/IEEE 48

High Voltage Cable Joints ANSI/IEEE 404

Separable insulated connectors for power distribution systems above 1kV AS 2629

Continuous cable ratings

Electric cables - Calculation of the current rating IEC 60287

Electrical installations - Selection of cables - Cables for alternating voltages up to and including 0.6/1kV AS/NZS 3008

Short circuit currents

Calculation of short circuit currents IEC 60949

Installation

ESAA *Guide to the Installation of Cables Underground*..... C(b)2
ESAA *Guide to the Use of Separable Connectors* D(b)30
*Services in Streets—A Code for the Placement of
Infrastructure Services in New and Existing Streets*
(prepared for PUACC and published September 1997)

Maintenance

ESAA *Guide for the Maintenance of High Voltage
Paper/Oil Insulated Cables and Accessories* D(b)31

15—Variation of Schedule 4—Requirements for substations

- (1) Schedule 4, clause 8(4)—after "barbed wire" insert:
 , or razor wire,
- (2) Schedule 4, clause 8(4)—after "0.15 m" insert:
 or tiger tape flat loops
- (3) Schedule 4, appendix—delete the appendix and substitute:

APPENDIX—Standards, codes, guides and other documents relating to substations

In this Appendix—

ESAA means Electricity Supply Association of Australia;

IEC means International Electrotechnical Commission;

IP Code means International Protection Code.

Electrical design

Switchgear assemblies & ancillary equipment for alternating
voltages above 1kV AS 2067

Circuit breakers and ancillary equipment

Degrees of protection provided by enclosures (IP Code) AS 60529

High voltage ac switchgear and controlgear - Circuit breakers
for rated voltages above 1000 V AS 2006

Switchgear assemblies and ancillary equipment

High voltage switches - Switches for rated voltages above 1kV
and less than 52kV AS/NZS 60265

High voltage, ac switchgear and controlgear - Switches and
switch-disconnectors - For rated voltages of 52kV and above AS 1025

High voltage ac switchgear and controlgear - Disconnectors
(isolators) and earthing switches AS 1306

High voltage ac switchgear and controlgear - Switch-fuse
combinations AS 2024

Common specifications for high-voltage switchgear and
controlgear standards AS/NZS 2650

AC metal-enclosed switchgear and controlgear for rated voltages above 1kV and up to and including 72.5kV	AS 2086
AC insulation-enclosed switchgear and controlgear for rated voltages above 1kV and up to and including 38kV	AS 2264
Switchgear assemblies and ancillary equipment for alternating voltages above 1 kV.....	AS 2067
Degrees of protection provided by enclosures (IP Code)	AS 60529
Insulating liquids - Specifications for unused mineral insulating oils for transformers and switchgear	AS 1767

Control equipment

Low-voltage switchgear and controlgear -General rules	AS 60947
Low-voltage switchgear and controlgear -Switches, disconnectors, switch-disconnectors and fuse combination units	AS/NZS 3947
Low-voltage switchgear and controlgear -Contactors and motor starters: Electromechanical contactors and motor starters	AS 60947
Low-voltage switchgear and controlgear -Circuit control devices and switching elements - Electromechanical control circuit devices	AS 60947
Low-voltage switchgear and controlgear -Control circuit devices and switching elements - Proximity switches	AS 60947

Insulating panels

Sheets and boards for electrical purposes - Classification and general requirements.....	AS 1795
Sheets and boards for electrical purposes -Dimensions of switchboard panels.....	AS 1795

Power transformers

Power transformers - General.....	AS 2374
Power transformers - Temperature rise.....	AS 2374
Power transformers - Insulation levels and dielectric tests - General requirements.....	AS 2374
Power transformers - Insulation levels and dielectric tests - External clearances in air.....	AS 2374
Power transformers - Ability to withstand short circuit.....	AS 2374
Power transformers - Determination of transformer and reactor sound levels	AS 2374
Insulating liquids - Specification for unused mineral insulating oils for transformers and switchgear.....	AS 1767

Bushings

Bushings for alternating voltages above 1000 V	AS 1265
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Surge arresters

Surge arresters (diverters) - Silicon carbide type for ac systems ..	AS 1307
Surge arresters - Metal-oxide surge arresters without gaps for ac systems	AS 1307

Batteries

Stationary batteries - Lead-acid - Vented type	AS 4029
Stationary batteries - Lead-acid - Valve-regulated type	AS/NZS 4029
Stationary batteries - Lead-acid - Pure lead positive pasted plate type	AS 4029

Insulation coordination

Insulation coordination - Definitions, principles and rules.....	AS 1824
Insulation coordination (phase-to-earth and phase-to-phase, above 1 kV) - Application Guide	AS 1824
Insulation coordination for equipment within Low Voltage systems: Principles, requirements and tests.....	IEC 60664

Safety clearances

Degrees of protection provided by enclosures (IP Code)	AS 60529
Switchgear assemblies and ancillary equipment for alternating voltages above 1kV	AS 2067

Buildings and enclosures

Building Code of Australia	
Fixed platforms, walkways, stairways and ladders: Design construction and installation.....	AS 1657
The use of ventilation and air conditioning in buildings - Ventilation design for indoor air contaminant control	AS 1668
The use of ventilation and air conditioning in buildings - Fire and smoke control in multi-compartment buildings.....	AS/NZS 1668
Degrees of protection provided by enclosures (IP Code)	AS 60529
The storage and handling of flammable and combustible liquids.....	AS 1940
Oil containment.....	Environment Protection Authority
Electrical installations - Secondary batteries installed in buildings - Vented cells.....	AS 3011
Electrical installations -Secondary batteries installed in buildings - Sealed cells.....	AS 3011

Switchyard structures, footings and foundations

Structural design actions - General principles	AS/NZS 1170
Structural design actions - Permanent, imposed and other actions	AS/NZS 1170
Structural design actions - Wind actions	AS/NZS 1170
Minimum design loads on structures (known as the SAA Loading Code) - Earthquake loads.....	AS 1170
Design of steel lattice towers and masts.....	AS 3995
Steel structures	AS 4100
Concrete structures	AS 3600

Maintenance

Guide to maintenance and supervision of insulating oils in service.....	AS 1883
Maintenance of electrical switchgear.....	AS 2467
Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings - Vented cells	AS 2676
Guide to the installation, maintenance, testing and replacement of secondary batteries in buildings - Sealed Cells	AS 2676

16—Variation of Schedule 5—Requirements for earthing and electrical protection systems

- (1) Schedule 5, clause 5—delete "AS" wherever occurring and substitute in each case:
AS/NZS
- (2) Schedule 5, clause 8—delete "of Clause 12"
- (3) Schedule 5, appendix—delete the appendix and substitute:

Appendix—Standards, codes, guides and other documents relating to earthing and electrical protection systems

In this Appendix—

ESAA means Electricity Supply Association of Australia;

IEEE means Institute of Electrical and Electronic Engineers.

Protection

All or nothing relays	AS 2481
Voltage transformers for measurement and protection	AS 1243
Current transformers for measurement and protection	AS 1675
Low voltage switchgear and controlgear - General rules.....	AS 60947
Low voltage switchgear and controlgear - Switches, disconnectors, switch-disconnectors and fuse-combination units	AS/NZS 3947
Low voltage switchgear and controlgear - Contactors and motor starters - Electromechanical contactors and motor starters.....	AS 60947
Low voltage switchgear and controlgear - Control circuit devices and switching elements - Electromechanical control circuit devices	AS 60947
Low voltage switchgear and controlgear - Control circuit devices and switching elements - Proximity switches	AS 60947

Earthing

Switchgear assemblies and ancillary equipment for alternating voltages above 1kV.....	AS 2067
Guide for safety in AC substation grounding	IEEE 80
Electrical installations.....	AS/NZS 3000

Relocatable premises (including caravans and tents) and their site installations	AS/NZS 3001
Guidelines for the design and maintenance of overhead distribution and transmission lines—	
Stay wires	ESAA C(b)1
Step and touch potentials.....	ESAA C(b)1
Switchgear assemblies and ancillary equipment for alternating voltages above 1kV	AS 2067
ESAA - <i>Earth Potential Rise</i> Code of Practice	
ESAA - <i>Earth Return High Voltage Power Lines</i> Code of Practice	
Maintenance	
Switchgear assemblies and ancillary equipment for alternating voltages above 1kV	AS 2067
Electrical installations	AS/NZS 3000
Guide to safety in AC substation grounding	IEEE 80
Guidelines for the design and maintenance of overhead distribution and transmission lines	ESAA C(b)1
ESAA - <i>Earth Potential Rise</i> Code of Practice	
ESAA - <i>Earth Return High Voltage Power Lines</i> Code of Practice	
Testing	
Electrical installations - Earthing	AS/NZS 3000
Guide for safety in AC substation grounding	IEEE 80
ESAA Guidelines for the design and maintenance of overhead distribution and transmission lines	ESAA C(b)1

Note—

As required by section 10AA(2) of the *Subordinate Legislation Act 1978*, the Minister has certified that, in the Minister's opinion, it is necessary or appropriate that these regulations come into operation as set out in these regulations.

Made by the Governor

with the advice and consent of the Executive Council
on 16 December 2004

No 252 of 2004

MENE021/04CS