

STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Amendment No. 1

to

AS/NZS 3016:2002

Electrical installations – Electric security fences

REVISED TEXT

The 2002 edition of AS/NZS 3016 is amended as follows; the amendments should be inserted in the appropriate places.

SUMMARY: This amendment applies to Clauses 2, 4.1.1, 4.1.2, 4.1.3, 5.2, 5.3.1, 5.3.2, 5.6, 5.11.2 and 5.11.4.

Published on 10 March 2006.

Approved for publication in Australia on behalf of the Council of Standards Australia on 6 March 2006.

Approved for publication in New Zealand by the Standards Council of New Zealand on 17 February 2006.

AMD.
No. 1
March
2006

Page 5 **2 Referenced documents**

Delete the existing text and **substitute** the following:

The following documents are referred to in this Standard:

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

AS/NZS 3350.2.76 *Safety of household and similar electrical appliances Part 2.76: Particular requirements – Electric fence energizers*

AS/NZS 60335.2.76 *Household and similar electrical appliances – Safety – Part 2.76: Particular requirements for electric fence energizers*

IEC 60529 *Degrees of protection provided by enclosures (IP Code)*

AMD.
No. 1
March
2006

Page 7 **4.1.1 Energizers**

Add at end of existing text the following:

or AS/NZS 60335.2.76.

AMD.
No. 1
March
2006

Page 7 **4.1.2 Ancillary equipment**

Add after AS/NZS 3350.2.76 in the NOTE the following:

or AS/NZS 60335.2.76

AMD.
No. 1
March
2006

Page 7 **4.1.3 Battery chargers**

Add after AS/NZS 3350.2.76 in the NOTE the following:

or AS/NZS 60335.2.76

AMD.
No. 1
March
2006

Page 8 **5.2 Protection against weather**

Delete AS 1939 and substitute the following:

AS 60529.

AMD.
No. 1
March
2006

Page 8 **5.3.1 Horizontal separation**

Delete the first paragraph and **substitute** the following:

For any two separate electric fences, each supplied from a separate independently timed energizer, the distance between the wires of the two electric fences shall be at least 2.5 m. This spacing may be less where conductors or connecting leads are covered by insulating sleeving, or consist of insulated cables, rated to at least 10 kV.

Add the following as a third paragraph:

If an electric fence is part of a multiple energizer system, it may encroach within a distance of 2.5 m from other different fences in the same system, provided the combination and configuration of energizers and fences in the system do not vary from that stated in the instructions supplied with the energizer.

AMD.
No. 1
March
2006

Page 8 **5.3.2 Vertical separation**

Delete the existing text and **substitute** the following:

A vertical separation of not less than 2 m shall be maintained between pulsed conductors fed from different independently timed energizers.

AMD.
No. 1
March
2006

Page 8 **5.6 Warning signs**

Delete the last paragraph and **substitute** the following:

The sign shall be at least 200 mm x 100 mm with an indelible inscription taking the form of either the symbol shown in figure 1, or the substance of the words 'TAKE CARE – ELECTRIC FENCE'. The inscription shall be on both sides, shall be indelible and any lettering shall have a height of at least 25 mm. The basic colour of the sign should be yellow with a black inscription.

AMD.
No. 1
March
2006

Page 10 **5.11.2** *Location of electric fence*

Delete the second paragraph and **substitute** the following:

Where an electric fence is installed in an elevated position, such as on the inner side of a window or skylight, the physical barrier may be less than 1.5 m high where it covers the whole of the electric fence. If the bottom of the window or skylight is within a distance of 1.5 m from the floor or access level then the physical barrier need only extend up to a height of 1.5 m above the floor or access level.

AMD.
No. 1
March
2006

Page 11 **5.11.4** *Separation between electric fence and physical barrier*

Delete sub-paras (a) and (b) and **substitute** the following:

- (a) Within the range of 100 mm to 200 mm or greater than 1000 mm where at least one dimension in each opening in the physical barrier is not greater than 54 mm;
- (b) Greater than 1000 mm where any opening in the physical barrier has all dimensions greater than 54 mm; or

Add after NOTE 2 the following:

NOTE 3 The value of 54 mm is based on a 50 mm nominal mesh having an upper limit tolerance of 4 mm.

Electrical installation – Electric security fences

Superseding AS/NZS 3016:1994

AS/NZS 3016:2002

This Joint Australian / New Zealand Standard was prepared by Joint Technical Committee EL/21 Installation of Electric Fences. It was approved on behalf of the Council of Standards Australia on 15 November 2002 and on behalf of the Council of Standards New Zealand on 20 December 2002. It was published on 10 January 2003.

The following interests are represented on Committee EL/21:

Australian Chamber of Commerce and Industry
Australian Dairy Farmers' Federation
Electrical Safety Organisation
Farmsafe Australia
Federated Farmers New Zealand
Ministry of Economic Development, New Zealand
Office of the Chief Electrical Inspector, Victoria
New Zealand Electric Fence Energizers Manufacturers Standards Working Group

Preparation of Joint Australian/New Zealand Standards

Joint Australian/New Zealand Standards are prepared by a consensus process involving representatives nominated by organizations in both countries drawn from all major interests associated with the subject. Australian/New Zealand Standards may be derived from existing industry standards, from established international Standards and practices or may be developed within a Standards Australia, Standards New Zealand or joint technical committee.

During the development process, Australian/New Zealand Standards are made available in draft form at all sales offices and through affiliated overseas bodies in order that all interests concerned with the application of a proposed Standard are given the opportunity to submit views on the requirements to be included.

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves that they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about Joint Australian/New Zealand Standards can be found by visiting the Standards New Zealand website at www.standards.co.nz or the Standards Australia website at www.standards.com.au and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards New Zealand and Standards Australia offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvements in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards New Zealand or Standards Australia International at the address shown on the title page.

This Standard was issued in draft form for comment as DR 01955 in Australia and in New Zealand.

Australian/New Zealand Standard™

Electrical installations – Electric security fences

First published as AS/NZS 3016:1994
Second edition 2002

Copyright

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia International Ltd, PO Box 1055, Strathfield, NSW 2135 and Standards New Zealand, Private Bag 2439, Wellington 6020.



Documents
Document Sharing Hub

FOREWORD

The Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL/21 on the Installation of Electric Fences in response to requests from Australian regulatory authorities and from the New Zealand Ministry of Commerce. This Standard is to supersede AS/NZS 3016:1994 on publication.

In the preparation of this Standard, reference was made to the New Zealand Ministry of Commerce document NZECP 21.2 *Electrical installations – Electric security fences*, and acknowledgement is made of the assistance received from that source. In addition, consideration was also given to IEC 60479-2 *Effects of current passing through the human body Part 2: Special aspects*.

The term ‘informative’ has been used in this Standard to define the application of the appendix to which it applies. An ‘informative’ appendix is only for information and guidance.