COMMITTEE TE-001

DR AS/NZS 5815.2

(Project ID: 100964)

Draft for Public Comment Australian/New Zealand Standard

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BEGINNING DATE FOR COMMENT:	**12 October 2011**
CLOSING DATE FOR COMMENT:	**14 December 2011**

Important: The procedure for public comment has changed – please read the instructions on the inside cover of this document.

Information technology equipment—Energy performance of computer monitors Part 2: Minimum energy performance standards (MEPS)

STANDARDS Australia

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Draft for Public Comment
Australian/New Zealand Standard

The committee responsible for the issue of this draft comprised representatives of organizations interested in the subject matter of the proposed Standard. These organizations are listed on the inside back cover.

Comments are invited on the technical content, wording and general arrangement of the draft.

The method for submission of comment on this document is to register and fill in an online form via Standards Hub Website. Instructions and examples of comment submission are available on the website. . Please use the following link—

https://www.hub.standards.org.au/hub/public/listOpenCommentingPublication.action

Comment must be via Hub, any emails or forms sent to us by fax or mail will not be considered by the Committee when it reviews the Public Comment received.

Please place relevant clause numbers beside each comment.

Editorial matters (i.e. spelling, punctuation, grammar etc.) will be corrected before final publication.

The coordination of the requirements of this draft with those of any related Standards is of particular importance and you are invited to point out any areas where this may be necessary.

Please provide supporting reasons and suggested wording for each comment. Where you consider that specific content is too simplistic, too complex or too detailed please provide an alternative.

If the draft is acceptable without change, an acknowledgment to this effect would be appreciated.

Once you have registered and submitted you comments via the online form, your comments are automatically submitted to the committee for review.

Normally no acknowledgment of comment is sent. All comments received via the Standards Hub Website by the due date will be reviewed and considered by the relevant drafting committee. We cannot guarantee that comments submitted in other forms will be considered along with those submitted via the Standards Hub online form. Where appropriate, changes will be incorporated before the Standard is formally approved.

If you know of other persons or organizations that may wish to comment on this draft Standard, could you please advise them of its availability. Further copies of the draft are available from the Publisher SAI Global at *http://www.saiglobal.com/*

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Committee TE-001—Safety of Electronic Equipment

Subcommittee TE-001-10—MEPS for Computer monitors

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Australian/New Zealand Standard

Information technology equipment—Energy performance of computer monitors

Part 2: Minimum energy performance standards (MEPS)

(To be AS/NZS 5815.2:20XX)

Comment on the draft is invited from people and organizations concerned with this subject. It would be appreciated if those submitting comment would follow the guidelines given on the inside front cover.

Important: The procedure for public comment has changed – please read the instructions on the inside cover of this document

This document is a draft Australian/New Zealand Standard only and is liable to alteration in the light of comment received. It is not to be regarded as an Australian/New Zealand Standard until finally issued as such by Standards Australia/Standards New Zealand.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Technical Committee TE-001, Safety of Electronic Equipment.

The objective of this Standard is to provide designers, manufacturers, importers, test laboratories, regulators and users of computer monitors with the minimum energy performance standards (MEPS) for computer monitors.

This Standard is published with the approval of Australian and New Zealand regulatory authorities and is structured to be suitable for reference in regulations.

This series, when complete, will consist of the following parts:

AS/NZS
5815 Information technology equipment—Energy performance of computer monitors
5815.1 Part 1: Methods of measurement
5815.2 Part 2: Minimum energy performance standards (MEPS)

The terms 'normative' and 'informative' are used in this Standard to define the application of the appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

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FOREWORD

In Australia, the energy labelling and MEPS requirements set out in this Standard are intended to be in force no earlier than 1 October 2012. Computer monitors covered in this Standard that are imported into Australia or manufactured in Australia beyond the effective date, that do not comply with the requirements of this Standard will be deemed non-compliant and may not be permitted to be sold in Australia. Information can be found at the http://www.energyrating.gov.au website.

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STANDARDS AUSTRALIA/STANDARDS NEW ZEALAND

Australian/New Zealand Standard

Information technology equipment—Energy performance of computer monitors

Part 2: Minimum energy performance standards (MEPS)

SECTION 1 SCOPE AND GENERAL

1.1 SCOPE

This Standard specifies the minimum energy performance standards (MEPS) for computer monitors. The power consumption of the computer monitors is measured according to AS/NZS 5815.1:2011.

1.2 EXCLUSIONS

This Standard does not apply to the following:

(a) Displays used exclusively for digital signage.

(b) Displays used exclusively for advertising.

(c) High performance displays, that is, a display using in plane switching (IPS) or vertical alignment (VA) technology and offering—

(i) native pixel resolution greater than or equal to 2.3 (1920 × 1200) MP;

(ii) viewing angle greater than or equal to 178° (at contrast ratio of min. 1:10);

(iii) colour gamut greater than or equal to 72% of NTSC; and

(iv) diagonal size greater than or equal to 61 cm (24 inches).

(d) Specialized displays that are intended for use primarily in commercial, professional fields, engineering, medicine, graphic arts, etc., that are not intended for sale to the general public. Products with displays intended for use in these commercial applications include the following:

(i) Those defined as professional products that are in the scope of EN 55103.

(ii) Medical products as set out in IEC 60601, Medical electrical equipment series.

(iii) Those that comply with the Digital Imaging and Communications in Medicine (DICOM) standard (for medical displays).

(iv) Products used in diagnostic medical applications that do not have a power state meeting the definition of Standby Active (Sleep) Mode (e.g. FDA's specifications for medical devices that require luminance to be maintained over the lifetime of the displays among other requirements that prevent such displays from implementing power management capabilities.

(v) Products that can display content through installed serial digital interface (SDI) signal path/s including medical displays intended by manufacturers to be used in the diagnosis, treatment, or monitoring of a patient.

(vi) Professional displays that are in the scope of EN 55103; or

(A) by EN 60601-1-x (IEC 60601-1-x) Medical electrical equipment 3C; or

(B) by EN 55022 class A.

(e) Products with video display capability and other functionality including one or more of the following:

(i) Built-in or integrated networking functionality, the circuitry for which cannot be physically separated or switched independently from the display component. Examples of such functionality may be, but is not restricted to, Video-Conferencing capability, VoIP capability, and PCoIP capability. The inclusion of just a camera, microphone and/or loudspeakers is not considered a network function.

(ii) 3.D Integrated PCs, tablet computers, slates, electronic readers, smart phones, and personal digital assistants.

(f) Products intended for displaying content to multiple users such as in public settings, conference rooms, etc., with the following characteristics:

(i) Product has a screen size of 32″ or above.

(ii) The product is marketed as a product that is intended to be viewed by more than one user at a time.

(iii) The product is not intended for desktop use.

(iv) The product is not supplied with a means of allowing it to be freestanding.

(v) The product requires installation on a permanent basis (it cannot be easily moved without tools being used).

(g) Products classified, marketed and or sold as televisions or TVs that include AM integrated television tuner, products with a computer input port (e.g. VGA) that are marketed and sold primarily as televisions, and component televisions.

1.3 APPLICATION

This Standard shall be read in conjunction with AS/NZS 5815.1.

1.4 REFERENCED DOCUMENTS

The following documents are referred to in this Standard:

AS
2706 Numerical values—Rounding and interpretation of limiting values

AS/NZS
4665 Performance of external power supplies
4665.1 Part 1: Test method and energy performance mark
4665.2 Part 2: Minimum energy performance standard (MEPS) requirements

5815 Information technology equipment—Energy performance of computer monitors
5815.1 Part 1 Methods of measurement

62087 Power consumption of audio, video and related equipment
62087.1 Part 1: Methods of measurement

CEN
EN 55022 Information technology equipment—Radio disturbance characteristics—Limits and methods of measurement

EN 55103 Electromagnetic compatibility—Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use

IEC
60601 Medical electrical equipment

IEC
60050-300 International Electrotechnical Vocabulary—Electrical and electronic measurements and measuring instruments

IEEE
100 The Authoritative Dictionary of IEEE Standards Terms

1.5 DEFINITIONS

For the purpose of this Standard, the definitions given in AS/NZS 5815.1, IEC 60050-300 and IEEE 100, and those below, apply.

1.5.1 Automatic brightness control (ABC)

A feature that adjusts the brightness of the computer monitor according to the illuminance level where it is being used.

1.5.2 Component television

A component television is a product that is composed of two or more separate components (e.g. display device and tuner) that are marketed and sold as a television under a single model or system designation. A component television may have more than one power cord, dual-function televisions/computer monitors that are marketed and sold as dual-function televisions/computer monitors.

1.5.3 Computer monitor

A commercially-available product with a display screen and associated electronics, often encased in a single housing, that as its primary function displays visual information from a computer, workstation or server via one or more inputs, such as VGA, DVI, HDMI, or IEEE 1394. Common computer monitor technologies include liquid crystal display (LCD), light emitting diode (LED), cathode-ray tube (CRT), and plasma display panel (PDP).

1.5.4 Family of models

In general, computer monitors do not have families of models for energy consumption purposes. A family of models may occur where only cosmetic changes such as colour, exists between the different models which will have the same brand, chassis, display and power consumption.

1.5.5 Measured quantities

Quantities measured using AS/NZS 5815.1.

1.5.6 Off mode

The operational mode of a computer monitor that is—

(a) connected to a power source;

(b) engaged by a mechanical power switch; and

(c) not providing any function.

1.5.7 On mode

The operational mode of a computer monitor that is displaying an image from a computer.

1.5.8 Registration

1.5.8.1 *Registration in Australia*

The completion and submission to an Australian regulator of the prescribed application form demonstrating that the product complies with the relevant minimum energy performance standards and/or the energy rating label requirements.

1.5.8.2 *Registration in New Zealand*

The completion and submission to EECA of the prescribed application form demonstrating that the product complies with the relevant minimum energy performance standards and/or the energy rating label requirements.

1.5.9 Standby active (sleep) mode

The operational mode of a computer monitor that is—

(a) connected to a power source;

(b) has all mechanical (hard) power switches turned on; and

(c) has been placed into a low-power mode by receiving a signal from an externally connected device (e.g. computer, game console, or set-top box) or by cause of an internal function such as a sleep timer or occupancy sensor.

1.5.10 Total energy consumption (TEC)

TEC is the expression of the power consumption of a device as an annualized energy consumption over one year.

1.5.11 Trans Tasman Mutual Recognition Agreement (TTMRA)

An agreement, dated 1 May 1998, between the Government of New Zealand and the Commonwealth, State and Territory Governments of Australia.

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SECTION 2 DETERMINING THE ENERGY PERFORMANCE OF ELECTRONIC DISPLAYS

2.1 GENERAL

Unless otherwise stated, numbers shall be rounded and recorded to four significant figures in accordance with AS 2706.

Power measurements shall be performed according to AS/NZS 5815.1:2011. On mode power measurements shall be rounded to one decimal place. Off Mode and Standby Active mode power measurements shall be rounded to 2 decimal places. The input on the computer monitor to which the video test signal is applied shall be specified in the test report. The test voltage and frequency shall be 230 V and 50 Hz respectively.

For a computer monitor which is powered by an external power supply (EPS), the computer monitor shall be tested with the supplied EPS. The power measurements and other related measurements required by this Standard are those of the combination of the computer monitor and the EPS. In addition, the EPS is required to comply with AS/NZS 4665.1 and AS/NZS 4665.2.

2.2 ON MODE MEPS POWER REQUIREMENTS

2.2.1 MEPS requirements for computer monitors which do not have ABC enabled by default

For computer monitors where automatic ABC is not enabled by default, the on mode (P_{avg}) power consumption shall be equal to or less than the values specified in Table 1. On mode power consumption is as measured in AS 5815.1.

TABLE 1

MINIMUM ENERGY PERFORMANCE REQUIREMENTS

Display category	Maximum on mode power consumption, W
Diagonal screen size < 76 cm Screen resolution ≤ 1.1 MP	$P_{O(MEPS)}$ = (6 × Screen resolution) + (0.007 75 × Screen area) + 3
Diagonal screen size < 76 cm Screen resolution > 1.1 MP	$P_{O(MEPS)}$ = (9 × Screen resolution) + (0.007 75 × Screen area) + 3

2.2.2 MEPS requirement for computer monitors which do have ABC enabled by default

For computer monitors where automatic brightness control is enabled by default, on mode (P_{avg}) power is as calculated in Equation 2.1 and shall be equal to or less than the values specified in Table 1:

$$P_{avg} = (0.8 \times P_h) + (0.2 \times P_l) \quad \ldots 2.1$$

where

P_{avg} = the average on mode power consumption in watts, rounded to the nearest tenth of a watt

P_h = the on mode power consumption in high ambient lighting conditions

P_l = the on mode power consumption in low ambient lighting conditions

NOTE: The formula assumes the display will be in low ambient lighting conditions 20% of the time.

2.3 STANDBY ACTIVE MODE POWER REQUIREMENTS

Standby Active (also known as sleep) shall be equal to or less than 2 W.

2.4 OFF MODE POWER REQUIREMENTS

Off mode shall be equal to or less than 1 W.

The user shall actuate a mechanical switch to bring the device out of off mode. If there is more than one such switch, the tester shall use the most readily available switch.

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APPENDIX A

FORMAT OF APPLICATION FOR REGISTRATION OF COMPUTER MONITORS FOR MEPS

(Normative)

A1 GENERAL

Applicants with products within the scope of the Standard shall have their products registered for MEPS and are required to provide information as set out in this Appendix.

NOTES:

1 The contact details supplied by applicants in this form or online may be used by other Government agencies to keep applicants informed of forthcoming regulatory changes that may affect the product registered under this Standard. Otherwise, contact details are treated as private and confidential.

2 NOTICE OF RIGHT TO DISCLOSE INFORMATION—The information you submit on this application will be used for the purposes of assessing your application and the performance of statutory responsibilities. The information that you have submitted may be disclosed to other state and territory or New Zealand energy efficiency government bodies (or their agents) who may use the information for the purposes of carrying out their duties and/or responsibilities including comparing efficiency claims. The information will also be entered onto the Online Registration Database. Publicly accessible data and more information are available at the http://www.energyrating.gov.au website.

A2 SCOPE OF THIS APPENDIX

This Appendix sets out the required format for submitting an application for registration and listing with regulators.

A3 GUIDANCE ON THE USE OF THIS APPLICATION FORM

A3.1 General

To assist users of this Standard, this Appendix has been formatted and structured to align with the online registration system for energy labelling and MEPS. The information requirements are defined within the online registration system.

The preferred method of making an application for energy labelling and/or MEPS is via the online registration system to ensure compliance with the most current registration requirements. To use this system, you need to apply for a user name and password. Once a user name has been issued, you will have full access to the online system.

Details on how to apply for a user name and password and how to log on to the online system can be found at the http://www.energyrating.gov.au website.

A3.2 All registrations

The Standard and requirements to which the application is made should be indicated in the application. Products sold in Australia and New Zealand shall be registered for energy labelling and MEPS with the relevant regulator.

A3.3 Submissions to the New Zealand regulator

Applicants who have registered and listed their product with the New Zealand regulator and intend to rely on the goods access provisions of the Trans Tasman Mutual Recognition Arrangement to sell that product in Australia without registering it with an Australian regulator shall comply with the following conditions:

(a) In respect of product imported or manufactured by the applicant, this product shall be either imported into New Zealand (but not directly into Australia) or manufactured in New Zealand (but not in Australia).

(b) If this product is imported into Australia, then it shall be imported through New Zealand.

A4 APPLICATION FORM

APPLICATION FOR REGISTRATION OF A COMPUTER MONITOR FOR MEPS (Please type or print)	
APPLICATION DETAILS	
Name of applicant:	
Applicant's position:	
Company/organisation name:	
Company Australian Business Number if applicable:	
Street address of applicant:	
Postal address of applicant:	
Applicant's telephone number:	
Applicant's facsimile number:	
Applicant's email address:	
AUSTRALIAN OR NEW ZEALAND CONTACT DETAILS A name, address and contact details for a person in Australia or New Zealand shall be provided	
Contact person's name:	
Position/title:	
Company/organization:	
Postal address:	
Telephone:	
Facsimile:	
Email address:	
MANUFACTURER'S DETAILS	
Company name:	
Contact person's name:	
Street address:	
Postal address:	

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Telephone number:		
Facsimile:		
Email:		
APPLICATION DETAILS		
The Standard under which this application is made:	AS/NZS XXXX.2:20XX	
Is the application meant for a single model or a family of models? (Identify one)	Single	Family
In what countries are these models to be sold? (Indicate each country) NOTE: The response will determine how the model will be displayed on Government energy websites in Australia and/or New Zealand. If a model is not indicated as being available in a country, that model will not appear on a website specific to that country.		
Year and month in which the model will be/was first available in Australia or New Zealand:		
If the applicant is not the manufacturer or importer, the applicant shall provide a letter of authority to make the registration application		
COMPUTER MONITOR DETAILS		
Brand name including family model designation, if applicable:		
Computer monitor type:		
Total number of models in this application:		
Model designation: (List all models covered by this application. This can be either a number or name or combination of the two that will identify the particular product. Add additional rows if more than 3 models)	Model 1:	
	Model 2:	
	Model 3:	

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Does this model or family replace or supplement another model or family with identical characteristics? (Indicate correct answer)	Yes	No
Does the computer monitor have any markings to indicate date, serial number or batch number?	Describe how these may be determined e.g. from an encrypted code.	

TESTING AND TEST REPORT	
Test laboratory type, e.g. own lab, independent lab	
Test laboratory name:	
Test laboratory address:	
Test laboratory accreditation, e.g. NATA	
Test standard used:	
Name of test report signatory:	
Test report number(s) and date(s):	
Is a test report attached? NOTE: This is not compulsory.	
TEST AND CALCULATED RESULTS **Desktop, integrated and notebook computers to be registered using TEC**	
(Add the results for each test undertaken)	
Standby power measured:	
On Mode power measured:	
Off Mode power measured:	

MINIMUM ENERGY PERFORMANCE STANDARDS MEPS are mandatory for all computers that are covered within the scope of this Standard **Performance prerequisite declaration—Computer Monitors**		
Is the on mode power (P_o) less than or equal to $P_{o(MEPS)}$?	Yes ☐	No ☐
Is the passive standby power less than or equal to 2 W?	Yes ☐	No ☐
Is the off mode power less than or equal to 1 W?	Yes ☐	No ☐

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DECLARATION

I declare that the details stated in this application are correct.

Signature of Applicant: ..... Date:.....

Applications in New Zealand:

The company responsible for the manufacture or importation of this product shall have its registered office(s) in New Zealand.

In respect of the subject product as imported or manufactured by the applicant, this product shall either be imported into New Zealand, but not directly into Australia, or manufactured in New Zealand. If this product is imported into Australia, then it shall only be imported via New Zealand.

I, the applicant, confirm that I understand the conditions above.

Signature of Applicant: ..... Date:.....

Office use only

Date received: ..... Registration number:

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APPENDIX B

OVERVIEW OF NEW ZEALAND LEGAL REQUIREMENTS

(Informative)

In New Zealand, the Energy Efficiency (Energy Using Products) Regulations 2002 ('the Regulations') are promulgated pursuant to s36 of the *Energy Efficiency and Conservation Act 2000* ('the Act').

Regulations 4 and 6 impose obligations on manufacturers in New Zealand and importers of products identified in Schedule 1 and/or 2 of the Regulations, which must be discharged before those products can be sold in New Zealand. Contravention of these Regulations is an offence under Regulation 13.

Essentially no one who manufactures in New Zealand or imports into New Zealand the products identified in Schedule 1 and/or 2 is allowed to sell them in New Zealand unless—

(a) the product complies with the relevant energy performance standards and/or relevant Standards for mandatory energy performance labelling; and

(b) the manufacturer or importer completes and submits to EECA the prescribed application form demonstrating that the product complies with those Energy Performance Standards.

There is an exception to the second of those requirements where the product is registered in Australia. A person relying on this exception is to ensure that the product's brand and model designations are the same as those registered in Australia when the product is sold by the importer or manufacturer in New Zealand.

Regulation 9 requires manufacturers and importers to provide statistical information to EECA by 1 August each year for the previous year, irrespective of where the product was registered.

A person relying on the goods access provisions of the Trans Tasman Mutual Recognition Arrangement to sell goods in Australia that can legally be sold in New Zealand, without registering the product with an Australian regulator, is to ensure that the goods are exported from New Zealand and are marked that they are from New Zealand.

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APPENDIX C

SAMPLE TEST REPORT

(Informative)

Test Report Number/code _____

LABORATORY INFORMATION	
Test laboratory name:	
Test laboratory address:	
Test technician:	
Test laboratory type, e.g. in house, independent:	
Test laboratory accreditation:	
Test Standard used:	
Date of test:	

TEST SETUP AND EQUIPMENT		
a.c. test voltage:		
Ambient temperature:		
Test equipment:	**Measurement**	**Calibration date**
COMPUTER MONITOR DETAILS		**Source**
Manufacturer/brand name:		
Computer Monitor type:		
Model number:		
Country of manufacture:		
Date of manufacture (if known):		
Power supply:		
Nameplate voltage/voltage range:		
Nameplate frequency/frequency range:		
Laboratory only data		
Serial number:		
On Mode Power (W):		
On Mode Power low ambient light (W):		
Active Mode Power (W):		
Off Mode Power (W):		

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*** END OF DRAFT ***

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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.

The following interests are represented on the committee responsible for this draft Australian/ New Zealand Standard:

Australian Chamber of Commerce and Industry

Australian Communications and Media Authority

Australian Industry Group

Australian Information Industry Association

Australian Subscription Television and Radio Association

CHOICE

Certification Interests, New Zealand

Consumer Electronics Association of New Zealand

Consumer Electronics Suppliers Association

Department of Climate Change and Energy Efficiency

Department of Defence, Australia

Electrical Compliance Testing Association

Electrical Regulatory Authorities Council

Energy Efficiency & Conservation Authority of New Zealand

Energy Networks Association

Free TV Australia

Ministry of Economic Development, New Zealand

SingTel Optus

Telstra Corporation

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Standards Australia

Standards Australia is an independent company, limited by guarantee, which prepares and publishes most of the voluntary technical and commercial standards used in Australia. These standards are developed through an open process of consultation and consensus, in which all interested parties are invited to participate. Through a Memorandum of Understanding with the Commonwealth government, Standards Australia is recognized as Australia's peak national standards body.

Standards New Zealand

The first national Standards organization was created in New Zealand in 1932. The Standards Council of New Zealand is the national authority responsible for the production of Standards. Standards New Zealand is the trading arm of the Standards Council established under the Standards Act 1988.

Australian/New Zealand Standards

Under a Memorandum of Understanding between Standards Australia and Standards New Zealand, Australian/New Zealand Standards are prepared by committees of experts from industry, governments, consumers and other sectors. The requirements or recommendations contained in published Standards are a consensus of the views of representative interests and also take account of comments received from other sources. They reflect the latest scientific and industry experience. Australian/New Zealand Standards are kept under continuous review after publication and are updated regularly to take account of changing technology.

International Involvement

Standards Australia and Standards New Zealand are responsible for ensuring that the Australian and New Zealand viewpoints are considered in the formulation of international Standards and that the latest international experience is incorporated in national and Joint Standards. This role is vital in assisting local industry to compete in international markets. Both organizations are the national members of ISO (the International Organization for Standardization) and IEC (the International Electrotechnical Commission).

Visit our web sites

www.standards.org.au www.standards.co.nz

www.standards.com.au

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