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## 1 Name of Determination

This Determination is the *Greenhouse and Energy Minimum Standards (Computer Monitors) Determination 2014*.

## 2 Commencement, Revocation and Replacement

- (1) This Determination comes into force on the day after it is registered.
- (2) This Determination revokes and replaces the *Greenhouse and Energy Minimum Standards (Computer Monitors) Determination 2013* (F2013L00733).

## 3 Definitions

In this Determination:

*Act* means the *Greenhouse and Energy Minimum Standards Act 2012*.

*AS/NZS 4665.1:2005* means *Australian/New Zealand Standard AS/NZS 4665.1:2005 Performance of external power supplies Part 1: Test method and energy performance mark*, as it existed on the date this Determination came into force.

*Note 1:* AS/NZS 4665.1:2005 is available from Standards Australia Limited.

*Note 2:* AS/NZS 4665.1:2005 includes all amendments up to and including AS/NZS 4665.1:2005/Amdt 1:2009 made on 27 February 2009.

*AS/NZS 5815.1:2012* means *Australian/New Zealand Standard AS/NZS 5815.1:2012 Information technology equipment - Energy performance of computer monitors Part 1: Methods of measurement of energy performance*, as it existed on the day this Determination came into force.

*Note:* AS/NZS 5815.1:2012 is available from Standards Australia Limited.

*AS/NZS 5815.2:2013* means *Australian/New Zealand Standard AS/NZS 5815.2:2013 Information technology equipment - Energy performance of computer monitors Part 2: Minimum energy performance standards (MEPS) and energy rating labels*, as it existed on the day this Determination came into force.

*Note 1:* AS/NZS 5815.2:2013 is available from Standards Australia Limited.

*Note 2:* AS/NZS 5815.2:2013 includes all amendments up to and including AS/NZS 5815.2:2013/Amdt 1:2014 made on 23 January 2014.

*EN 55103-1:2009* means *CEN Standard EN 55103-1:2009 Electromagnetic compatibility—Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use – Part 1: Emissions*, as it existed on the day this Determination came into force.

*Note:* EN 55103-1:2009 is available from Standards Australia Limited.

*IEC 60601* means *IEC Standard IEC 60601-1:2005 Medical electrical equipment – Part 1: General requirements for basic safety and essential*

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*performance*, as it existed on the day this Determination came into force.

*Note 1:* IEC 60601-1:2005 is available from Standards Australia Limited.

*Note 2:* IEC 60601-1:2005 includes all amendments up to and including IEC 60601-1:2005/Amdt 1:2012 made on 13 July 2012.

***computer monitor*** means a commercially-available product with a display screen and associated electronics, encased in a single housing, that as its primary function displays visual information from a computer, workstation or server, including via a wireless connection.

*Note:* Common computer monitor technologies include liquid crystal display (LCD), light emitting diode (LED), cathode-ray tube (CRT), and plasma display panel (PDP).

*Note:* Pursuant to paragraph 13(1)(b) of the *Legislative Instruments Act 2003*, expressions used in this determination have the same meaning as in the Act. For example, section 5 of the Act defines the following expressions:

- category A product
- covered by
- family of models
- GEMS
- GEMS labelling requirements
- GEMS level requirements
- model
- product classes
- supply

#### **4 Interpretation**

- (1) If a term or phrase is not defined under the Act, the Regulations to the Act or in this Determination, but the term is defined in a standard specifically mentioned in section 3 of this Determination, the term or phrase is to be read for the purposes of this Determination as having the meaning of the term under the relevant standard.

*Note:* Notwithstanding this, for convenience to users, the key terms for ascertaining if a product is covered by this Determination are defined in this Determination.

- (2) For the purposes of this Determination the applicable version of any document, including a standard, that:
- (a) is referred to in a standard under the heading ‘Normative References’ or under an equivalent heading in a standard; and

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- (b) must be applied to give effect to this Determination or a standard referred to in this Determination,  
is the version of the document, including a standard, that existed at the date this Determination came into force.

## 5 Specified product classes covered by this Determination

(Act, section 23)

### *Products that are covered by this Determination*

- (1) This Determination covers computer monitors specified in the table following this subsection which are designed to be connected to 230 or 240 volts mains voltage via:
- (a) a direct connection; or
  - (b) an external power supply permanently connected to the product; or
  - (c) an external power supply that can be disconnected from the product.

<b>Column 1 Class</b>	<b>Column 2 Description of class</b>
Class 1	Computer monitors with a diagonal screen size less than 76 cm (30 inches) and a screen resolution less than or equal to 1.1 MegaPixels.
Class 2	Computer monitors with a diagonal screen size less than 76 cm (30 inches) and a screen resolution greater than 1.1 MegaPixels.
Class 3	Computer monitors with a diagonal screen size equal to or greater than 76 cm (30 inches) and equal to or less than 152 cm (60 inches).

### *Products that are not covered by this Determination*

- (2) Despite subsection (1), the products described in Columns 2 and 3 of the following table are not covered by this Determination.

<b>Column 1 Item</b>	<b>Column 2 Description of product not covered by this Determination</b>	<b>Column 3 Detailed description (if applicable)</b>
1	<b>Electronic displays used exclusively for digital signage or digital picture frames</b>	
2	<b>Electronic displays used exclusively for advertising</b>	

Column 1 Item	Column 2 Description of product not covered by this Determination	Column 3 Detailed description (if applicable)
3	<b>High performance electronic displays</b>	<p>Displays using in plain switching (IPS) or vertical alignment (VA) technology and offering:</p> <p>(a) a native pixel resolution greater than or equal to 2.3 (1920 x 1200) MegaPixels; and</p> <p>(b) a viewing angle greater than or equal to 178 degrees (at a minimum contrast ratio of 1:10); and</p> <p>(c) a colour gamut greater than or equal to 72 per cent of NTSC; and</p> <p>(d) a diagonal screen size greater than or equal to 61 cm (24 inches).</p>
4	<b>Specialised electronic displays</b>	<p>Displays intended for use primarily in commercial or professional fields (for example: engineering, medicine, graphic arts) and that are not intended for sale to the general public. Displays intended for use in these applications include the following:</p> <p>(a) displays defined as professional products that are in the scope of EN 55103; and</p> <p>(b) medical products as set out in the IEC 60601 series; and</p> <p>(c) displays intended for medical use that comply with the Digital Imaging and Communications in Medicine (DICOM) standard; and</p> <p>(d) products used in diagnostic medical applications that do not have a power state equivalent to standby active mode; and</p> <p>(e) displays that can display content through installed serial digital interface (SDI) signal path/s including medical electronic displays intended by manufacturers to be used in the diagnosis, treatment, or monitoring of a patient.</p>

Column 1 Item	Column 2 Description of product not covered by this Determination	Column 3 Detailed description (if applicable)
5	<b>Combined products</b>	<p>Products with video electronic display capability and other functionality, including one or more of the following:</p> <p>(a) built-in or integrated networking functionality, the circuitry for which cannot be physically separated or switched independently from the electronic display component. Examples of such functionality include (without limitation) video-conferencing capability, VoIP capability, and PColP capability. The inclusion of a camera, microphone and/or loudspeakers is not a network function; or</p> <p>(b) integrated personal computers, tablet computers, slate computers, electronic readers, smart phones, and personal digital assistants.</p>
6	<b>Public displays</b>	<p>Products intended for electronically displaying content to multiple users such as in public settings, conference rooms, etc., with one or more of the following characteristics:</p> <p>(a) a screen size of 81 cm (32 inches) or above;</p> <p>(b) the product is marketed as a product that is intended to be viewed by more than one user at a time;</p> <p>(c) the product is not intended for desktop use;</p> <p>(d) the product is not supplied with a means of allowing it to be freestanding;</p> <p>(e) the product requires installation on a permanent basis (it cannot be easily moved without tools being used).</p>
7	<b>Large displays with a diagonal display dimension greater than 152 cm (60 inches)</b>	

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<b>Column 1 Item</b>	<b>Column 2 Description of product not covered by this Determination</b>	<b>Column 3 Detailed description (if applicable)</b>
8	<b>Products classified, marketed or sold as televisions or TVs.</b>	Includes products with an AM integrated television tuner, a product with a computer input port (for example, VGA) that is marketed and sold primarily as a television, and component televisions.

## **6 GEMS level requirements**

(Act, section 25)

### *Energy use and greenhouse gas production*

- (1) The requirements for energy use for products covered by this Determination are the requirements mentioned in section 2 of AS/NZS 5815.2:2013.

### *Conducting tests*

- (2) The requirements for conducting tests for products covered by this Determination are those mentioned in sections 2 and 3 of AS/NZS 5815.1:2012.
- (3) If a product covered by this Determination is designed to be connected to 230 or 240 volts main voltage via an external power supply that can be disconnected from the product, then the tests mentioned in subsection (2) must be conducted:
- (a) in the case of a product which is supplied with an external power supply—with the supplied external power supply; or
  - (b) in the case of a product which is not supplied with an external power supply—with an external power supply which has a Mark III energy performance mark in accordance with AS 4665.1:2005.

## **7 GEMS labelling requirements**

(Act, section 26)

### *Labelling and communication requirements*

- (1) The requirements for labelling and communication for products covered by this Determination are the requirements mentioned in sections 3 and 4 of AS/NZS 5815.2:2013, but excluding:
- (a) the text in clause 4.2 of AS/NZS 5815.2:2013—“As an alternative to a physical label, an electronically generated label may be used if the computer monitor is provided with a method to display the electronic label. Where an electronic label is used, instructions shall be provided on how to activate the electronic label so that retailers can activate it for showroom demonstration purposes.



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Labels incorporated into video loops are an acceptable form of display. Labels included in these loops may differ to the specified labels in this Standard as long as they depict the essential information that consumers would see on the physical label.

NOTE: Electronic labels and labels included in video loops are subject to approval by the relevant regulator”; and

- (b) the words in clause 4.3(b) of AS/NZS 5815.2:2013—“Displayed electronically on the computer monitor screen”.

### *Conducting tests*

- (2) The requirements for conducting tests for products covered by this Determination are those mentioned in sections 2 and 3 of AS/NZS 5815.1:2012.
- (3) If a product covered by this Determination is designed to be connected to 230 or 240 volts main voltage via an external power supply that can be disconnected from the product, then the tests mentioned in subsection (2) must be conducted:
  - (a) in the case of a product which is supplied with an external power supply—with the supplied external power supply; or
  - (b) in the case of a product which is not supplied with an external power supply—with an external power supply which has a Mark III energy performance mark in accordance with AS 4665.1:2005.

## **8 Other GEMS requirements**

(Act, section 27)

There are no other GEMS requirements for products covered by this Determination.

## **9 Families of models**

(Act, section 28)

- (1) Two or more models of a product covered by this Determination are in the same family of models if those models:
  - (a) are marketed in the same category or class of product; and
  - (b) have the same energy performance characteristics; and
  - (c) have identical physical characteristics that are relevant to complying with sections 6 and 7 of this Determination; and
  - (d) are included on a single test report which was prepared prior to the application for registration for the model being made under section 41 of the Act.
- (2) However, a model cannot be a member of a family of models if its inclusion in that family would lead to the family consisting of more than 10 models.

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## 10 Product Categories

(Act, section 29)

The products covered by this Determination are category A products.

## 11 Registrations affected by this Determination

(Act, section 36)

This Determination does not affect the registration of any model registered against the *Greenhouse and Energy Minimum Standards (Computer Monitors) Determination 2013* (F2013L00733).

Note: If a model's registration is not affected the model is taken to be registered against this Determination. See section 36 of the Act.

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### Note

1. All legislative instruments and compilations are registered on the Federal Register of Legislative Instruments kept under the *Legislative Instruments Act 2003*. See <http://www.frli.gov.au>.