



Changes to be implemented in

TCO Certified Displays 5.1

Valid from July 2009

July 2009

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A.6.2 Organisation

A.6.2.1 Environmental management system certification

TCO has decided to change requirement A.6.2.1 Environmental management system from requiring an ISO14001 certificate from the brand owner back to requiring the certificate from the manufacturing plant. This will make the requirement clearer.

The mandate is changed, as from 1 July 2009, to:

Mandate:

Each *manufacturing plant* must be certified in accordance with ISO 14001, or EMAS registered. If the product is manufactured by a third party, it is this company that shall be certified or registered.

If the *manufacturing plant* does not have an ISO 14001 certificate or EMAS registration at the time of application, the *manufacturing plant* is given a 12-month grace period to obtain ISO14001 certification or EMAS registration.

The following information shall be submitted to an approved eco-verifier:

1. A document showing the names and addresses of the manufacturing plants.
2. Copy of the ISO 14001 certificate or EMAS registration or, when not available, an estimated date of certification/registration.
3. A written guarantee that the certificate/registration is valid and that the mandate above is fulfilled, signed by the responsible person at the applicant company.

The following information shall be submitted with the application to TCO Development:

A copy of a verification report from an eco-verifier approved by TCO Development.

A.6.2.2 Social responsibility

Signatures of reports

The following text will be added to the B-part of version 5.1 of the TCO Display standard:

“To ensure that the document(s) sent in are really implemented and used, the report/certificate/membership or other document used as verification of this requirement must have a signature by a person at the brand owner company (approved to sign such documents by the brand owner company). All documents must also be dated to ensure that the documentation is up-to-date. The document(s) sent in by the brand owner is valid and verifies requirement A.6.2.2 one year from the signature date.”

A.6.3 Climate

A.6.3.1 Energy consumption – FPD

The following text will be removed to the B-part of version 5.1 of the TCO Display standard:

“Calibrated instrumentation

All instruments to be used when carrying out measurements for power shall have been recently calibrated and bear a calibration certificate from a certified laboratory.”

The following text will be added to the B-part of version 5.1 of the TCO Display standard:

“Test conditions, Supply Voltage

If the product has an Energy Star certificate TCO Development only require that one of the voltages is tested at a laboratory accepted by TCO Development. Other supply voltages may be verified through the existing Energy Star certificate. For products without Energy Star certificate all supply voltages must be tested at a laboratory accepted by TCO Development. The Supply Voltage shall be recorded in the test report.

The “Power supply efficiency requirement”

If the product has an Energy Star certificate, the TCO accepted test laboratory can base the test report on this certificate to show compliance with the Energy Star “Power supply efficiency requirement”. For products without Energy Star certificate the “Power supply efficiency requirement” must be tested by the TCO accepted laboratory.

The “Power management requirements”

The TCO accepted test laboratory can base the test report on a declaration from the manufacturer that the Energy Star “Power management requirements” are fulfilled.”

A.6.4 Environmentally hazardous substances

A.6.4.1 Cadmium (Cd), mercury (Hg), lead (Pb) and hexavalent chromium (CrVI)

When the new version of the standards is released, TCO Certified Displays 5.1, the following clarification will be added to the B-part of the standard:

The limit value is

- **3.5 mg Hg for lamps up to 500 mm in length**
- **5 mg for lamps between 500 and 1500 mm**
- **13 mg for lamps over 1500 mm**

Please note that this is the **maximum** allowed content – **not the average**.

The following text will be added to the A.6.4.1 template that needs to be filled out in version 5.1 of the TCO Display standard:

Lamp length (mm):

A.6.4.3 Non-halogenated substances

When the new version of the standards is released, TCO Certified Displays 5.1 an exemption to the requirement will be added:

Exempted are printed wiring board laminates, electronic components and all kinds of cable insulation.

Also, please note that there is an error in the “Applicability” in the requirement. Applicability is **All FPDs**.

A.6.4.5 Information regarding plastics and flame retarding agents

The following text will be added to the B-part of version 5.1 of the TCO Display standard:

“PWB laminates contained in LCD panels shall be listed if the conditions set out by the mandate are met.”

A.6.5 Product lifetime

A.6.5.1 Warranty and spare parts

The following text will be added to the B-part of version 5.1 of the TCO Display standard:

“Regarding spare parts:

1. If a part of a product is broken (eg bezel, stand) the end user shall not need to replace the whole product, only the broken part. The broken part shall be possible to replace with an equivalent part (this part does not have to be identical to the broken part).

2. If the cost of replacing the broken part (eg panel) is not economically reasonable for the end user, it is acceptable to replace the whole product.”

A written guarantee can be valid for more than one model or all products from the manufacturer, see below for example on template (changes from TCO Certified Displays 5.0 in yellow):

We hereby guarantee that the above mandate is fulfilled.

..... Product brand name	..... Model name(s) or "All products"
..... Signature	..... Name and title in block capitals
..... Date (Declaration valid 1 year from date)	..... Brand Owner Company

A.6.6 Preparation for recycling

A.6.6.5 Take back system

To fulfil the requirement a short description on how the system actually works should be sent in, preferably also a link to the website in question. It is not necessary to fill out the table on page 59, as long as the information stated in the table is submitted.

A written guarantee can be valid for more than one model or all products from the manufacturer, see below for example on template (changes from TCO Certified Displays 5.0 in yellow):

We hereby guarantee that the above mandate is fulfilled.

..... Product brand name	..... Model name(s) or "All products"
..... Signature	..... Name and title in block capitals
..... Date (Declaration valid 1 year from date)	..... Brand Owner Company

A.6.7 Product packaging

A.6.7.1 Hazardous substances in product packaging

A written guarantee can be valid for more than one model or all products from the manufacturer, see below for example on template (changes from TCO Certified Displays 5.0 in yellow):

We hereby guarantee that the above mandate is fulfilled.

..... Product brand name	..... Model name(s) or "All products"
..... Signature	..... Name and title in block capitals
..... Date (Declaration valid 1 year from date)	..... Brand Owner Company

A.6.7.2 Preparation for recycling of product packaging material

A written guarantee can be valid for more than one model or all products from the manufacturer, see below for example on template (changes from TCO Certified Displays 5.0 in yellow):

We hereby guarantee that the above mandate is fulfilled.

..... Product brand name	..... Model name(s) or "All products"
..... Signature	..... Name and title in block capitals
..... Date (Declaration valid 1 year from date)	..... Brand Owner Company