

**138 BT BY CORRESPONDENCE - Item 5.2.7**

**Deadline: 2011-02-28**

**SUBJECT**

EC Mandate M/477 to CEN, CENELEC and ETSI -  
Eco-design of televisions

**BACKGROUND**

Annex 1 gives a detailed background of Mandate M/477.

The mandate is joined at the end of this document.

*CCMC note: This mandate is also circulated to the CEN Technical Board, with the proposal to leave its execution to CENELEC according to the work repartition between the two organizations.*

**PROPOSED DECISION(S)**

BT accepted EC Mandate M/477 concerning the execution of standardization work for harmonized standards in the field of eco-design of televisions.

BT referred the coordination of the CENELEC response to CLC/TC 108X "Safety of electronic equipment within the fields of Audio/Video, Information Technology and Communication Technology", and CLC/TC 206 "Consumer equipment for entertainment and information and related sub-systems", and inviting CLC/TC 111X "Environment" to participate in the debate in its coordinating role for environmental issues.

## [Annex 1 to BT138/DG8313/DV](#)

### Background info

Standardization mandate M/477 in the field of televisions has been approved by the 98/34 Committee and was formally sent to CEN, CENELEC and ETSI on 2010-12-03. It is reproduced in annex.

The Commission requests the ESOs to elaborate a reliable, accurate and reproducible European standard(s), which takes into account the generally recognised state of the art, and/or adopt or adapt existing European and International standards for televisions, laying down procedures and methods of measuring the on-mode power consumption, the standby/off mode power consumption and peak luminance of televisions.

The standardization tasks covered by the mandate are as follows:

1. Procedures and methods for measuring the on-mode power consumption
2. Procedures and methods for measuring the standby/off-mode power consumption
3. Procedures and methods for measuring the peak luminance ratio
4. Verification procedure for market surveillance purposes
5. Template for power consumption test report

BT referred the coordination of the CENELEC response to CLC/TC 108X "Safety of electronic equipment within the fields of Audio/Video, Information Technology and Communication Technology", and CLC/TC 206 "Consumer equipment for entertainment and information and related sub-systems" and inviting CLC/TC 111X "Environment" to participate in the debate in its coordinating role for environmental issues.



**EUROPEAN COMMISSION**  
DIRECTORATE-GENERAL FOR ENERGY

Directorate C - New and renewable sources of energy, Energy efficiency & Innovation

**C.3 - Energy efficiency of products & Intelligent Energy – Europe**

Brussels, 3<sup>rd</sup> December 2010

**M/477 EN**

## **Mandate to CEN, CENELEC and ETSI for Standardisation in the field of televisions**

### **1. BACKGROUND**

#### **1.1 Legal Basis of the mandate**

This mandate relates to Directive 2009/125/EC of the European Parliament and of the Council establishing a framework for the setting of ecodesign requirements for energy-related products, to Directive 2010/30/EU of the European Parliament and of the Council on the indication by labelling and standard product information of the consumption of energy and other resources by energy-related products (recast), and to measures implementing these Directives for which Harmonised Standard(s) should be developed to cover essential requirements.

#### **1.2 The aim of the Mandate**

Commission Regulation (EC) No 642/2009 implements Directive 2009/125/EC of the European Parliament and of the Council with regard to ecodesign requirements for televisions. It is planned that the Commission adopts in 2010 a Delegated Regulation implementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling for televisions. These Regulations require that the measurement procedure for the on-mode power consumption, the standby/off mode power consumption and the peak luminance ratio shall be reliable, accurate and reproducible, and take into account the generally recognised state of the art, in order to ensure comparable measurements and fair competition, and to facilitate market surveillance activities. The aim of this mandate is to create a harmonised European standard(s) which covers this requirement.

### **2. DESCRIPTION OF THE MANDATED WORK**

The Commission requests CEN, CENELEC and ETSI to elaborate a reliable, accurate and reproducible European standard(s), which takes into account the generally recognised state of the art, and/or adopt or adapt existing European and International standards for televisions, laying down procedures and methods of measuring the on-mode power consumption, the standby/off mode power consumption and the peak luminance of televisions.

The standardisation tasks covered by this mandate are as follows.

**Responsible person: Stephan Kolb, DG ENER C/3**

### 1. Procedures and methods for measuring the on-mode power consumption:

To ensure that the prospective harmonised standard(s) provides accurate, reliable and reproducible procedures and methods for measuring the on-mode power consumption, including an identification of the brightest on-mode condition and a quantification of further relevant product features for on-mode power consumption, such as resolution, additional tuners and hard discs, automatic brightness control and presence sensors, which take into account the generally recognised state of the art to measure the on-mode power consumption of televisions;

To ensure that the prospective harmonised standard(s) includes a procedure that avoids televisions being programmed to recognize the test conditions, and reacting specifically to them;

### 2. Procedures and methods for measuring the standby/off-mode power consumption:

to ensure that the prospective harmonised standard provides accurate, reliable and reproducible procedures and methods for measuring standby/off-mode power consumption, which take into account the generally recognised state of the art to measure the standby/off-mode power consumption of televisions;

- to ensure that procedures and methods for measuring power consumption in standby and off mode identify and control the sources of measurement variability, including criteria allowing to determine whether a switch which puts the television in a condition with power consumption not exceeding 0.01 Watts when operated to the off position is easily visible, and the settings related to relevant product features;

### 3. Procedures and methods for measuring the peak luminance ratio

- to ensure that the prospective harmonised standard provides accurate, reliable and reproducible procedures and methods, which take into account the generally recognised state of the art to measure the peak luminance ratio of televisions, including suitable test patterns;

### 4. Verification procedure for market surveillance purposes:

- to ensure that the prospective harmonised standard(s) identifies and reduces to a minimum the sources of variability to be considered for market surveillance purposes;
- to provide the minimum values achievable for measurement uncertainties for the purposes of the verification procedure for the measured parameters taking into account the different sources of variability to be considered when a specific product is taken from the market and measured for market surveillance purposes;
- to ensure that the prospective harmonised standard(s) takes into account the costs for market surveillance activities;
- to verify if, in order to reduce the impact of variability to the system, the standard(s) should include specific criteria to be met by laboratories involved in the verification of the declared data (e.g. quality management system, qualification system, personnel training...);

## 5. Template for power consumption test report:

to define a template for a test report indicating the power consumption information to be declared by the manufacturers to fulfil at least the requirements set out by Commission Regulation No 642/2009 implementing Directive 2005/32/EC of the European Parliament and of the Council with regard to ecodesign requirements for televisions, and by Commission delegated Regulation No ../.. supplementing Directive 2010/30/EU of the European Parliament and of the Council with regard to energy labelling of televisions;

### **3. EXECUTION OF THE MANDATE**

CEN, CENELEC and ETSI are requested to communicate to the Commission, within 2 months of the acceptance of this mandate, a work plan for the execution of the above mentioned standardisation tasks, indicating the standard(s) requiring revision or amendment, and the new standard(s) that would need to be developed, if any.

CEN, CENELEC and ETSI are requested to communicate to the Commission after 7 months from the acceptance of this mandate an interim report on the progress of the tasks set out in this mandate, indicating any eventual difficulties encountered and communicating details of any Standard(s) that has been taken into consideration and modified to answer to the needs of the Mandate.

CEN, CENELEC and ETSI are requested to provide, in the three working languages of the ESOs, a copy of the standard(s) developed under this mandate **within 18 months** of the acceptance of the mandate.

CEN, CENELEC and ETSI are requested to forward the titles of the standard(s) developed or adapted under this mandate in all the official languages of the European Union.

CEN, CENELEC and ETSI are requested to draw up the work plan and execute the above mentioned tasks in close cooperation in order to ensure consistency and avoid overlapping standards.

Wherever possible the tasks should be executed within the framework of the Vienna and Dresden Agreements with a view to duly take into consideration the activities already done or in process at international level.

CEN, CENELEC and ETSI are requested to indicate the relationship between the clauses of the standard and the essential requirements covered.

Acceptance by CEN, CENELEC and ETSI, as applicable, of this mandate starts the standstill period referred to in Article 7 of the Directive 98/34/EC of 22 June 1998 (Of N° L 204/37 of 21 July 1998).

### **4. BODIES TO BE ASSOCIATED**

As appropriate, CEN, CENELEC and ETSI will invite the representative organisations of consumers' interests (ANEC), environmental protection (ECOS), workers (ETUI-REHS) and small and medium-size enterprises (NORMAPME) to take part in the standardisation work.