



## EUROPEAN COMMISSION

DIRECTORATE-GENERALXVIII  
ENERGY  
Directorate Industries and Market II :  
Non fossil Energy  
**Uni Electricity**

Brussels, 24 October 1995

### **MANDATE TO CEN/CENELEC FOR THE ELABORATION AND ADOPTION OF MEASUREMENT STANDARDS FOR BALLASTS FOR FLUORESCENT LAMPS**

#### **I. Justification**

The present mandate is within the actions undertaken under the SAVE<sup>1</sup> and PACE<sup>2</sup> programmes for the promotion of energy efficiency in the Union; both the programmes foresee initiatives to improve the energy efficiency of energy using equipment. Lighting for the commercial sectors is responsible for large electricity consumption and it is one of the priority area of action of the PACE programme. A comprehensive study carried out for the Commission<sup>3</sup> indicates that substantial energy savings can be achieved with the use of more energy efficient ballasts for fluorescent lamps. In order to develop Union actions to enhance energy efficiency of ballasts for fluorescent lamps it is necessary to have a uniform measurement standard of the total circuit power for ballasts when operating with their associated lamp(s). Existing European, and International standards provide a basis for obtaining this information, but a new standard has to be made based on the measurement methods of existing standards. Where required, revision of existing standards will be included so as to ensure that they provide measurement methods for total circuit power, which are representative, reproducible, and which allow methods of checking whether sample appliances conform with declared values.

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- <sup>1</sup> OJ N° L 307 of 8.11.1991, p. 34 - Specific Actions for Vigorous Energy Efficiency, Council Decision of 29.10.1991 (91/565/EEC)
  - <sup>2</sup> OJ N° L 157 of 9.6.1989, p.32, Council Decision of 5.6.1989 (89/364/EEC) - the acronym is from the name in French: Programme d'action communautaire visant à améliorer l'efficacité de l'utilisation de l'électricité.
  - <sup>3</sup> Study for the Commission of the European Communities on measures to promote energy efficient lighting in the commercial sector in Europe, carried out by Building Research Establishment (UK), (Final Report December 1994).

## **II. Description of mandated work**

1. The Commission hereby requests CEN/CENELEC to prepare a new measurement standard based on European and international measurement standards for fluorescent lamp ballasts, so laying down the methods of measuring their consumption of electric power and their efficiency. This standardisation work shall take into account international and European standards in this field

### **2 Characteristics to be dealt with in the standards**

The standards should define the principal characteristics referred to above to be measured.

- Definition of reference ballasts at 50/60 Hz and high frequency
- Ballast Lumen Factor
- Total Input Lamp-ballast Circuit Power

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For all the characteristics thus defined, tolerances permitted to declared values shall be fixed.

### **3 Fluorescent lamp ballasts to be covered**

The mandate covers all ballasts sold for domestic and normal commercial purposes for the following fluorescent lamps :

- linear lamps T8 and T12 with power  $\geq 15$  W
- single ended (compact) lamps with power  $\geq 18$  W
- other general purpose lamps .

Ballast which form an integral parts with lamps are excluded

The work may be divided into three phases as follows:

1. - Ballasts for linear lamps T8 and T12 with power  $\geq 15$  W
2. - Ballasts for single ended lamps with power  $\geq 18$  W
3. - Ballasts for other general purpose lamps

### III. Execution of request

1. The European Standards (EN) taking into account the principal characteristics referred to above, will be adopted by :

Phase 1	31 December 1996
Phase 2	31 December 1996
Phase 3	31 December 1996

2. Three linguistic versions (DE, EN, FR) of the each standard will be available at adoption, together with the correct titles in the other Community languages.
3. Acceptance by CEN/CENELEC of this mandate will initiate the standstill period referred to in Article 7 of the Council Directive 83/189/EEC of 28 March 1983<sup>4</sup>, amended by Directive 94/10/EEC<sup>5</sup>.
4. CEN and CENELEC will ensure a close collaboration between them in order to maintain a coherent set of European standards.
5. CEN/CENELEC may choose to adopt the European standards on the basis of the International bodies' standardization activities, via the parallel vote procedure. However, if CEN/CENELEC notes that the target date, referred to above, will not be met, they will undertake to do the necessary in order to prepare European standards, after consulting with IEC and ISO, at their own level.

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<sup>4</sup> OJ n° L 109 of 26.4.1983

<sup>5</sup> OJ n° L 100 of 19.4.1994