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STANDARDISATION MANDATE ADDRESSED TO CEN, CENELEC AND ETSI CONCERNING ELECTROMAGNETIC COMPABILITY RELATED TO AIRCRAFT AND AERONAUTICAL EQUIPMENT

1. TITLE

This mandate concerns the preparation of harmonised standards covering the essential EMC requirements for aircraft and aeronautical equipment, including an intermediate report, which should contain national and international specifications and practices applied in the current technical situation.

2. JUSTIFICATION

2.1 Legal Basis

This standardisation mandate falls within the framework of Directive 89/336/EEC¹ on the approximation of the laws relating to EMC.

Articles 4(a) and 4(b) of Directive 89/336/EEC stipulate that the apparatus which it covers shall be designed in such a way that:

“(a) The electromagnetic disturbance it generates does not exceed a level allowing radio and telecommunication equipment and other apparatus to operate as intended;

(b) The apparatus has an adequate level of intrinsic immunity of electromagnetic disturbance to enable it to operate as intended”.

¹ Council Directive 89/336/EEC of 3 May 1989 on the approximation of the laws of the Member States relating to electromagnetic compatibility (Official Journal L139 of 23 May 1989) as amended.

2.2 Previous mandates.

The following mandates have been issued to CEN, CENELEC and ETSI requesting the adoption of harmonised standards for the apparatus covered by Directive 89/336/EEC:

- BC-T-353 for the development of harmonised standards for telecommunication terminal equipment, satellite earth station equipment and radiocommunications equipment.
- BC/CLC-03/88 for the development of EMC product standards
- BC/CLC-02/92 supplementing BC/CLC-03/88.
- BC/CLC/03/0000/98-3 supplementing BC/CLC-02/92
- BC-IT-82 covering EMC aspects of Information Technology and Telecommunication equipment.
- M/038 supplementing BC-IT-82 by introducing the concept of harmonised standards in the context of the new approach.

3. **DESCRIPTION OF THE MANDATE**

The European Commission requests CEN, CENELEC and ETSI to prepare and adopt the harmonised standards covering the aspects of emission and electromagnetic immunity for aircraft and aeronautical equipment.

These standards should, as far as possible, be coherent with the generic standards, defining if necessary a new EMC environment to be considered, the aeronautical environment, due to the specific nature of this equipment.

An EMC phenomena analysis is requested in order to verify fulfilment of the provisions of the EMC Directive for aircraft as a single apparatus, and for the relevant apparatus intended to be installed in aircraft.

As an intermediate step, CEN, CENELEC and ETSI should issue a report describing the current technical situation, and identifying any technical specification and/or administrative procedure, regional or international, which in this area may already satisfy the requirements of the EMC Directive.

This intermediate report should enable CEN, CENELEC and ETSI, in co-operation with the relevant interested parties, to rely as far as possible on already existing specifications

and practices in the aeronautical sector and to ensure their coherent application in the framework of the EMC Directive.

Harmonised standards should lay down the limits and test methods needed to allow presumption of conformity taking due account of the international standardisation and current technical practise in this field.

All relevant interested parties at regional and international level should contribute to the execution of the mandate.

4. EXECUTION OF THE MANDATE

4.1 The Commission hereby entrusts to CEN, CENELEC and ETSI the described mandate.

4.2 In order to ensure transparency in the work to be carried out, CEN, CENELEC and ETSI will provide by the end June 2000 with the following information:

- An intermediate report describing the current technical situation and identifying any technical specification, practice, and/or administrative procedure, regional or international, which may satisfy the provisions requirements of the EMC Directive.
- An indication of aspects to be modified and/or supplemented.
- A programme with the standards that will cover the mandate and the target dates for their availability.

4.3 CEN, CENELEC and ETSI are at regular intervals to inform the Commission, which in turn will inform the Directive 98/34/EC Committee, of any new draft standard which might be covered by this mandate, together with the characteristics of the standard as referred to above.

4.4 Within six months of their adoption, the European standards adopted are to be transposed into national standards and the conflicting national standards are to be withdrawn from the catalogues of the national standards organisations of Member States.

4.5 It goes without saying that CEN, CENELEC and ETSI must co-operate with competent bodies in the aeronautical sector and co-ordinate the activities in order to avoid any duplication of work. EMC standards are of international and interregional interest. These bodies are therefore advised to co-ordinate their activities with the other international bodies concerned.