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DIRECTORATE-GENERAL III

INDUSTRY

Legislation and standardization; telematics networks

Standardization

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M/239

MANDATE TO CEN/CENELEC/ETSI FOR STANDARDIZATION, AND A STUDY, IN THE FIELD OF AIR TRAFFIC MANAGEMENT EQUIPMENT AND SYSTEMS.

1. BACKGROUND

This mandate relates in general to Community air transport policy under Article 84(2) of the Treaty establishing the EEC, and in particular to the Council Directive on the definition and use of compatible technical and operating specifications for the procurement of air traffic management equipment and systems (93/65/EEC of 19 July 1993, OJ N°. L187 of 29 July 1993).

In line with the objectives of the Treaty, the Directive aims to harmonize and integrate Community practice in this area with the intention of remedying air traffic congestion and improving the flow of traffic in the short term. Technical harmonization will contribute to establishing a consistent level of safety in air traffic management and to the free movement of air traffic management equipment within the territory of the Community.

In support of these aims, the Directive takes account of Eurocontrol activities for equipment or systems (of particular aspects of such equipment or systems) for application in the field of air traffic management. These Eurocontrol specifications are intended to be brought into the Community legislative framework by Commission action under the framework of the Directive so as to ensure their uniform application by all the Member States.

It is recognised in the Directive that there is a need for European standardization work allied to the drawing up of technical specifications by Eurocontrol. Equipment or systems intended primarily for use in air traffic management may have implications outside their intended functions; for example, equipment may be similar in function and use to other equipment or systems of broader application, or may need to work with external systems such as computers or communications networks. In such cases, the standardization of the aspects having external or more general effects is appropriate for elaboration as European Standards in CEN/CENELEC/ETSI.

Accordingly, in October 1993 the Commission issued a mandate (M/028) to CEN/CENELEC/ETSI requesting the drawing up of a programme of standards to complement Eurocontrol's programme of technical specifications.

CEN/CENELEC/ETSI formed a joint group, ITAEGAir, to examine the entire technical area, and eventually responded in June 1995 with a comprehensive overview of the areas in which European standardization was appropriate in the ATM field. This programme was very large in scope, and included some areas that were considered for the time being as immature for standardization or in which the relationship with other bodies working in the same area remained unclear. The programme was considered in detail by the Commission in consultation with experts from all interested parties including Eurocontrol and the standards bodies, and certain standards were identified as being immediately required and feasible to undertake now. They are listed in Annex A. It was also decided that a further issue - STDMA system requirements - should be examined in detail with a view to determining the feasibility of standardizing it. A study in this area is therefore also mentioned in Annex A.

2. DESCRIPTION OF THE MANDATED WORK.

CEN/CENELEC/ETSI are asked to draw up the standards, and the study, for equipment and systems associated with air traffic management, that are listed in Annex A of this mandate.

In preparing the standards and the study, CEN/CENELEC/ETSI should take account of the technical specifications, standards and rules currently available or under preparation in this area at global, European, or national level. In particular, account shall be taken of the technical work of Eurocontrol, of the rules and technical specifications drawn up by the International Civil Aviation Organization ICAO, and of the work currently in progress in European pre-standardization bodies such as EUROCAE.

3. BODIES TO BE ASSOCIATED.

The standards shall be drawn up in close cooperation and association with Eurocontrol. Other bodies to be associated include air transport and airport operators; air regulatory authorities; manufacturers' groups; pre-standardization bodies such as EUROCAE, radio, telecommunications and electrical regulatory authorities; telecommunications operators.

4. EXECUTION OF THE MANDATE

1. CEN, CENELEC and ETSI shall jointly inform the Commission of the arrangements to be adopted for the execution of the work within three months of acceptance of this mandate.
2. CEN, CENELEC and ETSI shall present a joint and mutually agreed list of target dates for the presentation of the standards listed in Annex A below, to the Commission within six months of acceptance of this mandate. They shall present the draft standards listed therein by the target dates specified.
3. The European Standards (EN or ETS) shall be adopted by the target dates specified. At these dates, the three linguistic versions (German, English, French) shall be available.
4. The European standards adopted shall be transposed into national standards and differing national standards shall be withdrawn from the catalogues of the national standards organizations in the Member States within six months of their adoption.
5. CEN, CENELEC and ETSI shall present the study referred to in Annex A below to the Commission within twelve months of the date of acceptance of this mandate.
6. Acceptance by CEN, CENELEC and ETSI of this mandate starts the standstill period referred to in Article 7 of Council Directive 83/189/EEC of 28 March 1983 (OJ N° L 109 of 26 April 1983) as last amended by Directive 94/10 of the Council and Parliament (OJ L100 of 19 April 1994, p. 30).

ANNEX A

Standards and study to be drawn up

Surveillance

1. A European Standard (EN or ETS) for information exchange for airport surface radar, related to the Eurocontrol ASTERIX specification.

Communications

2. A European Standard (EN or ETS) for air to ground communication Mode 2 VHF data link (VDL) transmitter receivers.
3. A European Standard (EN or ETS) for ground to ground voice communication - digital signalling in ATS telephone links.
4. A *study* on the feasibility of standardizing self-organising time division multiple access (STDMA) system requirements.
Note: This study should include target dates for any proposed standards.

Airports

5. A European Standard (EN or ETS) for Gatelink: an aircraft-ground system data link communication interface using WAN/HIPERLAN concepts (the specific needs of digital communication between an aircraft at a parking place and the ground network to exchange large files of data).
Note: The drawing up of this standard may be preceded by a study if this is considered necessary.
6. A European Standard (EN or ETS) for airport light beacon systems.

Installation Rules

7. A European Standard (EN or ETS) giving guidance on installation rules intended to ensure the safety and security of specific ATM and airport installations.