



# AMENDMENT

**ETS 300 384**  
pr **A1**

October 1996

---

Source: EBU/CENELEC/ETSI JTC

Reference: RE/JTC-00VHFTX/A1

ICS: 33.060.20

**Key words:** Audio, broadcasting, FM, radio, transmitter, VHF

European Broadcasting Union



Union Européenne de Radio-Télévision

**This draft amendment A1, if approved, will modify  
the European Telecommunication Standard ETS 300 384 (1995)**

**Radio broadcasting systems;  
Very High Frequency (VHF), frequency modulated,  
sound broadcasting transmitters**

## ETSI

European Telecommunications Standards Institute

### ETSI Secretariat

**Postal address:** F-06921 Sophia Antipolis CEDEX - FRANCE

**Office address:** 650 Route des Lucioles - Sophia Antipolis - Valbonne - FRANCE

**X.400:** c=fr, a=atlas, p=etsi, s=secretariat - **Internet:** secretariat@etsi.fr

Tel.: +33 4 92 94 42 00 - Fax: +33 4 93 65 47 16

---

**Copyright Notification:** No part may be reproduced except as authorized by written permission. The copyright and the foregoing restriction extend to reproduction in all media.

© European Telecommunications Standards Institute 1996.

© European Broadcasting Union 1996.

All rights reserved.



## Foreword

This draft amendment to ETS 300 384 (1996) has been produced under the authority of the Joint Technical Committee (JTC) of the European Broadcasting Union (EBU), Comité Européen de Normalisation ELECTrotechnique (CENELEC) and the European Telecommunications Standards Institute (ETSI), and is now submitted for the Unified Approval Procedure phase of the ETSI standards approval procedure.

This ETS, together with ETS 300 447, is intended to become a harmonized standard, the reference of which is intended to be published in the Official Journal of the European Communities referencing Council Directive 89/336/EEC (EMC Directive).

Harmonized standards may be used to confer presumption of conformity with the essential requirements of the EMC Directive.

The technical characteristics which are relevant to the EMC Directive are listed in annex F.

Annex G contains the draft ERC Decision which references the technical specifications in this ETS for inclusion in national regulations. This draft ERC Decision is currently undergoing public consultation. The final ERC Decision will be included in this amendment when it has been adopted by the ERC.

Although all technical specifications that apply to the radiocommunications product on a "mandatory" basis to have it placed on the market and brought into use are included in this ETS and ETS 300 447, not all technical specifications have a similar status:

- compliance with the technical specifications, as referenced to the EMC Directive, allow the affixation of the CE mark and the free circulation of the radiocommunications product;
- the technical specifications referenced in the ERC Decision are for type approval purposes as part of the licensing provisions for bringing the equipment into use.

This latter subset of the technical specifications, although contained in the ETSs, is not harmonized under the terms of the EMC Directive, with the exception of those specifically referenced to the EMC Directive.

**NOTE:** The EBU/ETSI JTC was established in 1990 to co-ordinate the drafting of ETSs in the specific field of broadcasting and related fields. Since 1995 the JTC became a tripartite body by including in the Memorandum of Understanding also CENELEC, which is responsible for the standardization of radio and television receivers. The EBU is a professional association of broadcasting organisations whose work includes the co-ordination of its Members' activities in the technical, legal, programme-making and programme-exchange domains. The EBU has Active Members in about 60 countries in the European Broadcasting Area; its headquarters is in Geneva \*.

\* European Broadcasting Union  
Case Postale 67  
CH-1218 GRAND SACONNEX (Geneva)  
Switzerland

Tel: +41 22 717 21 11  
Fax: +41 22 717 24 81

<b>Proposed transposition dates</b>	
Date of latest announcement of this amendment (doa):	3 months after ETSI publication
Date of latest publication or endorsement of this amendment (dop/e):	6 months after doa
Date of withdrawal of any conflicting National Standard (dow):	6 months after doa

## Amendments

### Page 27

Add new annexes F and G:

**Annex F(normative):**      **Clauses in this ETS which refer to essential requirements of Council Directive 89/336/EEC**

**Table F.1. Subclauses of this ETS relevant for compliance with the essential requirements of the EC Council Directive 89/336/EEC.**

Clause / subclause and title		Corresponding article of Council Directive 89/336/EEC	Qualifying remarks
4.11.1	Spurious emissions	4 a)	Test load characteristics as in 4.1.3 a)

**Annex G (normative):**      **ERC Decision on the adoption of approval regulations for very high frequency (VHF), frequency modulated, sound broadcasting transmitters based on the European Telecommunications Standard (ETS) 300 384**

This annex contains the ERC Decision which references the technical specifications in ETS 300 384 for inclusion in national regulations.

**EUROPEAN RADIOCOMMUNICATIONS COMMITTEE**

ERC Decision  
of .....1996

on the adoption of approval regulations for  
very high frequency (VHF), frequency modulated, sound broadcasting transmitters  
based on the European Telecommunications Standard (ETS) 300 384

## EXPLANATORY MEMORANDUM

### 1. INTRODUCTION.

The free movement of radiocommunications goods and the provision of Europe-wide services for radiocommunications are only achievable if there exist common regulations throughout Europe regarding availability of frequency bands, approval requirements and border crossing procedures. A basic requirement to fulfil these objectives is the Europe-wide implementation of national regulations based on the European Telecommunications Standards (ETSS) developed by the European Telecommunications Standards Institute (ETSI).

This Decision (ERC/\*\*\*/(96)XX) provides the necessary mechanism for CEPT administrations to commit themselves to implement, within their national regimes, European Telecommunications Standard 300 384<sup>1</sup> and withdraw any conflicting national standard.

### 2. BACKGROUND.

Both the ERC and ETSI are involved in the development of common regulations, as described in (1) above. The Memorandum of Understanding between ERC and ETSI explains the respective responsibilities of the two organisations and its annex describes the principles of co-operation. The ERC, for its part, should, *inter alia*, adopt Decisions on the introduction of ETSI standards into national type approval regimes.

ETS 300 384 has been prepared by the Joint Technical Committee of the European Broadcasting Union (EBU) and ETSI. The standard has undergone the ETSI standards approval procedure and is now published as an ETS.

The use of the frequency range (87.5 to 108 MHz) covered by ETS 300 384 is harmonised within CEPT. Further, the equipment used in this frequency range is subject to national licensing and frequency planning which requires specification of, *inter alia*, frequency of operation and effective radiated power (e.r.p.).

Nevertheless, there are a number of parameters, in particular those considered by the ERC as essential for spectrum management purposes<sup>2</sup>, which can be harmonised by adopting within national regulations the limit values and measurement methods provided in ETS 300 384.

### 3. REQUIREMENT FOR AN ERC DECISION.

The allocation and assignment of radio frequencies and the complementary equipment approval regimes in CEPT member countries are laid down by law, regulation or administrative action. The ERC recognises that for harmonised fixed and mobile radio services to be introduced successfully throughout Europe, manufacturers and operators must be given the confidence to make the necessary investment in the development and procurement of new systems. Commitment by CEPT administrations to implement this ERC Decision will provide a clear indication that equipment conforming to national regulations based on ETS 300 384 will have the benefit of a Europe-wide market.

---

<sup>1</sup> ETS 300 384: "Radio broadcasting systems; Very High Frequency (VHF), frequency modulated, sound broadcasting transmitters".

<sup>2</sup> See Annex 1 of the Decision

**ERC Decision  
of .....(1996)**

**on the adoption of approval regulations for  
very high frequency (VHF), frequency modulated, sound broadcasting transmitters  
based on the European Telecommunications Standard (ETS) 300 384**

The European Conference of Postal and Telecommunications Administrations,

*considering:*

- a) that CEPT has a long term objective to harmonise the use of frequencies and the related regulatory regimes;
- b) that such harmonisation will benefit administrations, manufacturers, operators and users;
- c) that ETSI has published ETS 300 384 for equipment to be used for sound broadcasting transmitters in the 87.5 to 108 MHz frequency range;
- d) that, for the foreseeable future, there will continue to be widespread use of sound broadcasting equipment having the technical characteristics described in (c) above;
- e) that, in accordance with the Memorandum of Understanding between ERC and ETSI, the ERC shall adopt ERC Decisions on the introduction of ETSI standards into national approval regimes;
- f) that the use of radio equipment is subject to national licensing and frequency planning requirements, in particular for frequency of operation and e.r.p.;
- g) that suitable transitional arrangements are given in CEPT Recommendation T/R 01-05.

**DECIDES**

- 1. to adopt, by 1 January 1997, national approval regulations for sound broadcasting equipment operating in the frequency range 87.5 to 108 MHz based on the limit values and measurement methods for spectrum management parameters contained in ETS 300 384, with the exclusion by national choice of those parameters which are subject to national licensing requirements. A list of the spectrum management parameters to be included in approval regulations is given in Annex 1;
- 2. to withdraw any conflicting national approval regulation(s);
- 3. that the equipment shall be marked ERC FMBC Y, where Y is the country symbol of the national type approval authority which issued the type approval certificate;
- 4. that CEPT Member administrations shall communicate the national measures implementing this Decision to the ERC Chairman and the ERO when the Decision is nationally implemented.

European Radiocommunications Committee Decision ERC/\*\*(96)XX

on the adoption of approval regulations for very high frequency (VHF), frequency modulated, sound broadcasting transmitters based on the European Telecommunications Standard (ETS) 300 384.

The following CEPT administrations have committed themselves to apply the terms of this Decision:

DRAFT



Annex 1

Parameters from ETS 300 384 to be included in approval requirements:

ETS 300 384		Section	Comments
<b>Transmitter parameters</b>			
Carrier power		4.3	Subject to national licensing conditions
Deviation		4.8,4.9	
Frequency error		4.5,4.7	
Spurious emissions		4.11.1,	
		4.13 a	
Out of band emissions : stereo		4.11.2	
Out of band emissions : mono		4.11.3	

## History

Document history	
January 1995	First Edition
October 1996	Unified Approval Procedure UAP 56: 1996-10-21 to 1997-02-14