



EUROPEAN
TELECOMMUNICATION
STANDARD

DRAFT
pr **ETS 300 722**

February 1996

Source: TC-SES

Reference: DE/SES-05019

ICS: 33.060.50

Key words: satellite, NCF, mobile, earth station, MES, data, LBRDC, service, MSS, LEO, non-GSO

**Satellite Earth Stations and Systems (SES);
Network Control Facilities (NCF) for
Mobile Earth Stations (MESs) providing
Low Bit Rate Data Communications (LBRDC)
using satellites in Low Earth Orbits (LEO)
and operating in frequency bands below 1 GHz**

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Foreword

This draft European Telecommunication Standard (ETS) has been produced by the Satellite Earth Stations and Systems (SES) Technical Committee of the European Telecommunications Standards Institute (ETSI), and is now submitted for the Public Enquiry phase of the ETSI standards approval procedure.

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

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1 Scope

This draft European Telecommunication Standard (ETS) provides specifications for the standardization of the characteristics of the minimum required Network Control Facilities (NCFs) for Mobile Earth Stations (MESs) with both transmit and receive capabilities in order to ensure that the network operator is able to suppress and enable the transmissions from the MESs. These facilities will allow certain interference situations, resulting from the emissions from interfering or faulty MESs, to be terminated; in particular for the protection of the radio astronomy services.

This ETS defines specifications for the control facilities in a satellite network in which MESs as defined in draft ETS 300 721 [1] operate.

This ETS deals with specifications, defined in order to protect other users of the frequency spectrum from unacceptable interference.

2 Normative reference

This ETS incorporates, by dated or undated references, provisions from other publications. These normative references are cited at the appropriate places in the text, and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this ETS only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

- [1] Draft prETS 300 721: "Satellite Earth Stations and Systems (SES); Mobile Earth Stations (MESs) providing Low Bit Rate Data Communications (LBRDC) using satellites in Low Earth Orbits (LEO) and operating in frequency bands below 1 GHz".

3 Abbreviations

For the purposes of this ETS, the following abbreviations apply:

MES	Mobile Earth Station
NCF	Network Control Facility

4 Test report

The test report shall contain the results of the test.

5 Suppression of MES transmissions

Purpose:

To inhibit the transmissions from any MES when found necessary, with the NCFs.

Specification:

It shall be possible to suppress the transmissions from any MES in a network by entering the appropriate command at the NCF.

Once the command to inhibit a selected MES or a predefined group of MESs is entered into the NCF then:

- the selected MESs shall suppress their emissions and shall enter into the inhibited state within 30 seconds as defined in ETS 300 721 [1];
- provided a link is available, the selected MESs shall display an indication of MES inhibition from transmitting within 60 seconds.

Verification:

By documentary evidence and demonstration. Verification of transmission suppression shall be performed after commanding inhibition under the following test conditions:

- before the MES is powered on;
- when the MES is in idle mode;
- during a period of transmission;
- before an intended period of transmission.

6 Enabling of MES transmissions

Purpose:

To re-enable transmissions from an MES or MESs whose transmissions have previously been suppressed.

Specification:

At the NCF, provided a link is available, it shall be possible to re-enable transmissions of the MES whose transmissions have previously been suppressed.

Verification:

By documentary evidence and demonstration.

History

Document history	
February 1996	Public Enquiry PE 102: 1996-02-19 to 1996-06-14