



EUROPEAN
TELECOMMUNICATION
STANDARD

DRAFT
pr **ETS 300 722**

February 1997

Source: TC-SES

Reference: DE/SES-05019

ICS: 33.020

Key words: Satellite, mobile, earth station, MES, MSS, LEO

**Satellite Earth Stations and Systems (SES);
Network Control Facilities for MES providing
Low Bit Rate Data Communications (LBRDCs)
using LEO satellites operating below 1 GHz**

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 1997. All rights reserved.

Contents

Foreword	5
1 Scope	7
2 Normative reference.....	7
3 Abbreviations.....	7
4 Test report.....	7
5 Suppression of MES transmissions	7
6 Enabling of MES transmissions	8
History.....	9

Blank page

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 One step Approval Procedure of the ETSI standards approval procedures.

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

Blank page

1 Scope

This 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 insure that certain interference situations, resulting from the emissions from interfering or faulty MESs, will 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 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 undated reference, provisions from another publications. The normative reference is cited at the appropriate places in the text, and the publication is listed hereafter. For undated references the latest edition of the publication referred to applies.

- [1] prETS 300 721: "Satellite Earth Stations and Systems (SES); MES providing Low Bit Rate Data Communications (LBRDC) using LEO satellites operating 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:

By entering an appropriate command, said "inhibition command" at the NCF, it shall be possible to send a transmission disabled command to any MES in the network, in order to suppress its transmissions and to inhibit any further transmissions until a transmission enabled command is received.

Verification:

By documentary evidence and demonstration. Verification of transmission suppression shall be performed after commanding inhibition.

6 Enabling of MES transmissions

Purpose:

To re-enable transmissions from an MES or several 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
February 1997	One step Approval Procedure	OAP 9724:	1997-02-14 to 1997-06-13