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**Satellite Earth Stations and Systems (SES);  
Network Control Facilities (NCF) for  
Maritime Mobile Earth Stations (MMESs) operating in the  
1,5/1,6 GHz and 11/12/14 GHz bands providing  
Low Bit Rate Data Communications (LBRDCs)**

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## Foreword

This final 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 Voting phase of the ETSI standards approval procedure.

<b>Proposed transposition dates</b>	
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

Further standardization is continuing for Maritime Mobile Earth Stations (MMESs) to which this ETS may apply.

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## 1 Scope

This final draft European Telecommunication Standard (ETS) provides specifications for the standardization of the minimum required Network Control Facilities (NCF) characteristics for Maritime Mobile Earth Stations (MMESs) with both transmit and receive capabilities in order to ensure that the network operator is able to suppress and enable the transmissions from the MMESs. In particular, these facilities will allow certain interference situations, resulting from the emissions of interfering MMESs, to be terminated.

This ETS defines specifications for the control facilities in an MMES network operating Low Bit Rate Data Communications (LBRDCs), as defined in ETS 300 460 [1].

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

## 2 Normative references

This ETS incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text. 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] Final draft prETS 300 460 (1995): "Satellite Earth Stations and Systems (SES); Maritime Mobile Earth Stations (MMESs) operating in the 1,5/1,6 GHz bands providing Low Bit Rate Data Communications (LBRDCs) for the Global Maritime Distress and Safety System (GMDSS); Technical characteristics and methods of measurement".

## 3 Abbreviations

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

LBRDC	Low Bit Rate Data Communications
MMES	Maritime Mobile Earth Station
NCF	Network Control Facilities

## 4 Test report

The test report shall contain the results of the test.

## 5 Suppression of MMES transmissions

### Purpose:

To inhibit the transmissions from any MMES when found necessary, with the Network Control Facilities (NCF).

### Specification:

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

In the case of systems which do not inhibit initial burst transmissions from the MMES (e.g. "request" or "log-in" bursts) it shall be possible to:

- a) inhibit all communications from the MMES terminal through the network; and
- b) inform the MMES user through the network that the MMES is inhibited from making communications, in order to limit the number of initial burst transmissions.

Once the command to inhibit a selected MMES is entered into the NCF, the necessary mechanism shall be invoked so that the selected MMES suppresses its transmission and enters into the inhibited state within 30 seconds.

For systems in operation prior to 1st. January 1994, and using half-duplex techniques, once the command to inhibit a selected MMES is entered into the NCF, a delay of no longer than 30 minutes shall occur before the MMES is inhibited.

The suppression of MMES transmission commanded by the NCF shall not prevent the MMES from initiating a distress alert or conducting distress communication.

**Verification:**

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

- before the MMES is reset or powered on again;
- during a period of transmission;
- before an intended period of transmission.

## **6 Re-enabling of MMES transmissions**

**Purpose:**

To re-enable transmissions from an MMES 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 MMES whose transmissions have previously been suppressed.

**Verification:**

By documentary evidence and demonstration.



## History

Document history			
January 1995	Public Enquiry	PE 77:	1995-01-16 to 1995-05-12
February 1996	Vote	V 98:	1996-02-19 to 1996-04-12