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

**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 92 94 42 00 - Fax: +33 93 65 47 16

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## Foreword

This European Telecommunication Standard (ETS) has been produced by the Satellite Earth Stations and Systems (SES) Technical Committee of the European Telecommunications Standards Institute (ETSI).

Every ETS prepared by ETSI is a voluntary standard. This ETS contains text concerning type approval of the equipment to which it relates. This text does not make this ETS mandatory in its status as a standard. However, this ETS can be referenced, wholly or in part, for mandatory application by decisions of regulatory bodies.

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## 1 Scope

This European Telecommunication Standard (ETS) provides specifications for the standardisation of the characteristics of the minimum required Network Control Facilities (NCFs) for Land Mobile Earth Stations (LMESs) 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. In particular, these facilities will allow certain interference situations, resulting from the emissions from interfering MESs, to be terminated.

This ETS defines a requirement and a recommendation for the control facilities in an LMES network operating Low Bit Rate Digital Communications (LBRDCs) only, as defined in ETS 300 254 [1] and ETS 300 255 [2].

This ETS deals with two types of specification; an essential normative requirement (indicated in Clause 4) and a recommendation (indicated in Clause 5);

These are specified in order to protect other users of the frequency spectrum from unacceptable interference.

All tests related to the requirement shall be performed and the results entered in the data sheets of the test report. The ability to comply with the recommendation shall also be noted in the data sheets of the test report.

## 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] ETS 300 254: "Satellite Earth Stations and Systems (SES); Land Mobile Earth Stations (LMESs) operating in the 1,5/1,6 GHz bands providing Low Bit Rate Data Communications (LBRDCs)".

[2] ETS 300 255: "Satellite Earth Stations and Systems (SES); Land Mobile Earth Stations (LMESs) operating in the 11/12/14 GHz bands providing Low Bit Rate Data Communications (LBRDCs)".

## 3 Abbreviations

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

LBRDC	Low Bit Rate Data Communication
LMES	Land Mobile Earth Station
NCF	Network Control Facility

## 4 Requirement - suppression of LMES transmissions

### Purpose:

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

### Specification:

It shall be possible to suppress the transmissions from any LMES 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 LMES (e.g. "request" or "login" bursts) it shall be possible to:

- a) inhibit all communications from the LMES terminal concerned through the network; and
- b) inform the user by an indication on the LMES that the LMES is inhibited from making communications.

Once the command to inhibit an LMES or a predefined group of LMESs is entered into the NCF:

- the selected LMESs shall suppress their transmission and enter into the inhibited state within 30 seconds;
- provided a link is available, the selected LMESs shall display an indication of LMES inhibition from transmitting within 60 seconds.

For systems in operation prior to 1 January 1994, and using half-duplex techniques, once the command to inhibit an LMES or a predefined group of LMESs is entered into the NCF, a delay of no longer than 30 minutes shall occur before the LMESs are inhibited.

**Verification:**

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

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

## **5 Recommendation - enabling of LMES transmissions**

**Purpose:**

To re-enable transmissions from an LMES or MESSs whose transmissions have previously been suppressed.

**Specification:**

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

**Verification:**

By documentary evidence and demonstration.



**History**

<b>Document history</b>	
May 1994	First Edition
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