



SLOVENSKI STANDARD

DSIST ETS 300 255.% - -

01-gYdhYa VYf!% - -

Satelitske zemeljske postaje in sistemi (SES) – Kopenske mobilne zemeljske postaje (LMES), ki delujejo v pasovih 11/12/14 GHz, ki zagotavljajo podatkovne komunikacije z nizko bitno hitrostjo (LBRDC)

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 (LBRDC)

Ta slovenski standard je istoveten z: ETS 300 255 E%% - (!\$)

ICS:

33.060.30	Radiorelejni in fiksni satelitski komunikacijski sistemi	Radio relay and fixed satellite communications systems
-----------	--	--

DSIST ETS 300 255.% - -

en



EUROPEAN
TELECOMMUNICATION
STANDARD

ETS 300 255

May 1994

Source: ETSI TC-SES

Reference: DE/SES-05002

ICS: 33.060.30

Key words: LMES, LBRDC

**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)**

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

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 1994. All rights reserved.

Contents

Foreword	5
1 Scope	7
2 Normative references	8
3 Definitions and abbreviations	8
3.1 Definitions	8
3.2 Abbreviations	9
4 Requirements	9
4.1 Safety	9
4.1.1 Mechanical construction	9
4.1.2 Electrical safety, power voltages	9
4.1.3 Radio frequency radiation protection	9
4.2 Radio Frequency (RF)	10
4.2.1 Unwanted emissions outside the band 14,00 - 14,25 GHz	10
4.2.2 Maximum unwanted emission within the 14,00 GHz to 14,25 GHz band	11
4.2.3 Off-axis EIRP emissions density in the nominated bandwidth	12
4.2.4 Electromagnetic immunity	14
4.3 LMES Control and Monitoring Functions (CMF)	14
4.3.1 Monitoring functions	14
4.3.1.1 Processor monitoring	14
4.3.1.2 Transmit frequency sub-system	15
4.3.2 Power on/reset	15
4.3.3 Network control reception and authorisation	16
4.3.3.1 Network control authorisation	16
4.3.3.2 Network control reception	16
4.4 Initial burst rate transmission	17
5 Recommendations	17
5.1 Electrical safety while loading and unloading hazardous fuels or gases	17
5.2 Electromagnetic immunity - General immunity between 2 GHz and 3 GHz	17
5.3 Compliance with RF specifications under conditions of shock and vibration	18
5.4 Method of attachment to the vehicle of the Externally Mounted Equipment (EME)	18
6 Network Control Facilities (NCFs) for LMES networks	18
Annex A (normative): Environmental and test conditions	19
A.1 Environmental conditions	19
A.2 Test conditions	19
Annex B (normative): Out-of-band unwanted emissions above 960 MHz - test procedure	20
B.1 Introduction	20
B.2 Measuring apparatus	20
B.3 Equipment Under Test (EUT)	20
B.4 Special Test Equipment (STE)	20
B.5 Test set-up	21

B.6	Measuring procedure	21
B.7	Alternative measuring procedure.....	21
Annex C (normative): In-band unwanted emissions, test procedure		22
C.1	Introduction	22
C.2	Measuring apparatus	22
C.3	Equipment Under Test (EUT)	22
C.4	Special Test Equipment (STE)	22
C.5	Test set-up.....	22
C.6	Measuring procedure.....	23
C.7	Alternative measuring procedure.....	23
Annex D (normative): Off-axis EIRP density, test procedure.....		24
D.1	Introduction	24
D.2	Measuring apparatus	24
D.3	Equipment Under Test (EUT)	24
D.4	Special Test Equipment (STE)	24
D.5	Test set-up.....	24
D.6	Measuring procedure.....	24
Annex E (normative): Static rms antenna pointing accuracy.....		25
E.1	Introduction	25
E.2	Measuring apparatus	25
E.3	Equipment Under Test (EUT)	25
E.4	Special Test Equipment (STE)	25
E.5	Test set-up.....	25
E.6	Measuring procedures.....	25
History		27

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.

Blank page