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Raumfahrttechnik - Handbuch zur elektromagnetischen Kompatibilität

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**CEN-CENELEC Management Centre:** Rue de la Science 23, B-1040 Brussels

## **Table of contents**

Europ	ean For	eword	11
Introd	uction		12
1 Sco <sub>l</sub>	oe		13
2 Refe	rences		14
3 Tern	ns, defir	nitions and abbreviated terms	15
3.1	Terms	from other documents	15
3.2	Terms	specific to the present document	15
3.3	Abbrev	iated terms	16
3.4	Nomen	clature	20
4 Ratio	onale fo	r ECSS-E-ST-20-07C unit level test requirements	21
4.1	Genera	ıl rationale for standard EMC test requirements	21
4.2	Test se	t-up requirements	21
	4.2.1	Line impedance stabilization network	21
	4.2.2	Mains isolation transformers	23
	4.2.3	Anechoic chambers	23
4.3	EMC te	est requirements	24
	4.3.1	Overview	24
	4.3.2	CE, power leads, differential mode, 30 Hz to 100 kHz	24
	4.3.3	CE, power and signal leads, 100 kHz to 100 MHz	24
	4.3.4	CE, power leads, inrush current	25
	4.3.5	DC Magnetic field emission, magnetic moment	25
	4.3.6	Absence of RE magnetic field requirement, 30 Hz to 50 kHz, in the standard	26
	4.3.7	RE, electric field, 30 MHz to 18 GHz	26
	4.3.8	CS, power leads, 30 Hz to 100 kHz	27
	4.3.9	CS, bulk cable injection, 50 kHz to 100 MHz	
	4.3.10	CS, power leads, transients	31
	4.3.11	RS, magnetic field, 30 Hz to 100 kHz	31
	4.3.12	RS, electric field, 30 MHz to 18 GHz	32

	4.3.13	Susceptibility to electrostatic discharges	32
5 Syst	em leve	el activities	34
5.1	EMC F	Programme	34
	5.1.1	Introduction	34
	5.1.2	EMC Programme philosophy	34
	5.1.3	Early EMC activities	36
	5.1.4	EMC control plan	42
5.2	Systen	n level design aspects	43
	5.2.1	Introduction	43
	5.2.2	Electrical bonding	43
	5.2.3	Grounding methods and rationale	49
	5.2.4	Cable shields connection rules, methods and rationale	65
	5.2.5	EGSE grounding rules and methods	73
	5.2.6	Protection against ESD	74
	5.2.7	Magnetic cleanliness	74
	5.2.8	Design methods for RFC	77
5.3	Systen	n level verification	77
	5.3.1	System level analyses	77
	5.3.2	System level tests	107
5.4	Trouble	eshooting and retrofit techniques	116
	5.4.1	RFC below 500 MHz	116
	5.4.2	Reduction of RF leakages of external units	116
	5.4.3	Filter connectors	117
6 Desi	an tech	nniques for EMC	118
6.1	•	vel design techniques	118
•	6.1.1	Introduction	118
	6.1.2	Control of the radiated emission from digital electronics	
	6.1.3	Connection of zero volt planes to chassis	
	6.1.4	Mixed signal PCBs	126
6.2		rules and techniques for magnetic cleanliness	
	6.2.1	Overview	
	6.2.2	Electronic Parts and Circuits	
	6.2.3	Solar Array	
	6.2.4	Shielding	
	6.2.5	Structure and housings	
	6.2.6	Harness, Wiring and Grounding	
	6.2.7	Compensation	
		•	

6.3	Control	ling the CE from DC/DC converters	132
7 EMC	test me	ethods	140
7.1	DC and	l low frequency magnetic field measurements	140
	7.1.1	Measurements for multiple dipole modelling	140
	7.1.2	Measurements for spherical harmonics modelling	143
	7.1.3	"Six points method"	146
	7.1.4	Perm and deperm	149
	7.1.5	Low frequency magnetic field measurements	151
	7.1.6	Magnetic properties measurements	151
7.2	Measur	ring the primary to secondary capacitance of a DC/DC converter	157
7.3	Electric	and electromagnetic field measurements	158
	7.3.1	Low frequency electric field measurements	158
	7.3.2	UHF/SHF sniff tests	160
	7.3.3	Reverberation chamber tests	162
7.4	Voltage	e and current probes	173
	7.4.1	Passive measurement and injection current probes	173
	7.4.2	"True differential" uses of current probes	176
	7.4.3	Voltage probes	178
7.5	Conduc	cted susceptibility techniques	179
	7.5.1	CS, power leads, transients	179
	7.5.2	Double BCI	187
7.6	Radiate	ed susceptibility techniques	194
	7.6.1	UHF/SHF spray tests	
	7.6.2	Reverberation chamber tests	195
8 EMC	analvs	is methods and computational models	197
8.1		nalysis methods	
•	8.1.1	DC magnetic, multiple dipole modelling	197
	8.1.2	DC magnetic, spherical harmonics	
	8.1.3	Electrical interfaces survival to ESD	204
	8.1.4	Oversized cavity theory	
	8.1.5	Shielding analyses	
8.2		omputational models and software	
∆nnev		rences	220

## **Figures** Figure 4-7: ECSS-E-ST-20-07C BCI calibration setup.......30 Figure 4-8: CS transient, as a percentage of power line voltage, as recommended in ECSS-E-ST-20-07C Annex......31 Figure 5-2: Coupling of an external unit to an antenna connected receiver......38 Figure 5-3: Coupling of an internal unit to an antenna connected receiver ......39 Figure 5-4: Coupling of transmitter connected antenna to an external unit .......40 Figure 5-6: Filter decreased efficiency due to poor bonding ......43 Figure 5-7: Narrow strips, fixation by screws .......45 Figure 5-9: Thick strips, fixation by screws .......46 Figure 5-11: Shaped grounding sheet .......48 Figure 5-12: SMOS arm panel featuring an external Al foil co-cured with the CFRP......48 Figure 5-14: Simple sensor acquisition with floating reference at sensor end ......50 Figure 5-15: Complex electrical sub-system with floating reference at sensor end ......50 Figure 5-17: Typical CMVR for 10m cable length ......52 Figure 5-18: Example of simulated CMVR for an infra-red bolometer experiment......54 Figure 5-19: Conceptual representation of circuits sharing a common reference through Figure 5-20: Illustration of current distribution and resulting voltage drop across a ground plane .......57 Figure 5-21: Net partial inductance of a ground plane as a function of track height h and track length ℓ (similar to Fig. 14 of [11]) ......58 Figure 5-22: Common mode voltage generation and propagation with improper

grounding ......59

Figure 5-25: Example of equipment internal grounding for internal decoupling (top view)	61
Figure 5-26: Common mode current segregation in an EGSE cabinet	62
Figure 5-27: High EMI decoupling and current segregation using module enclosures in a rack/bin or equipment housing.	63
Figure 5-28: Typical equipment bonding implementation (bonding strap)	63
Figure 5-29: Equivalent diagram of a unit-to-panel connection by bonding strap	64
Figure 5-30: Impedance between equipment housing and structure panel for non-conductive and conductive thermal fillers	65
Figure 5-31: Cable shield connected to the chassis at both ends	66
Figure 5-32: Example of attenuation of external common mode voltage by a cable shield, showing the rejection above a certain frequency (here 3 kHz)	67
Figure 5-33: Typical transfer impedances of shielded cables	67
Figure 5-34: Cable shield connected to a ground pin (solution to be avoided)	68
Figure 5-35: Cable shields connected to a halo ring	69
Figure 5-36: Cable shields connected to a halo ring – Example layout	69
Figure 5-37: Cable shields connected to a halo ring inside a connector backshell	70
Figure 5-38: Grounding tag inside a connector back-shell	70
Figure 5-39: Cable shield connection to a grounding tag inside a connector backshell	70
Figure 5-40: Tag ring cable shield termination	71
Figure 5-41: Pigtail	
Figure 5-42: Connector backshell and overshield	71
Figure 5-43: Shielded cables inside an overshield	72
Figure 5-44: Comparison of various cable and bundle shielding methods	73
Figure 5-45: Magnetic field versus distance from a magnetic source of 1 Am <sup>2</sup>	77
Figure 5-46: Rough overview of noise sources on a star distributed DC power bus	78
Figure 5-47: Example of TDMA current and resulting bus voltage in sunlight mode	79
Figure 5-48: Example of LIDAR current consumption profile	80
Figure 5-49: Electrical (left) and thermal (right) equivalent circuits of a fuse	
Figure 5-50: Electrical fuse model with arc	82
Figure 5-51: Typical fuse current shape	82
Figure 5-52: Probability density function of $P_{rdB}$ for $P_{rdB}$ for $P_{rdB}$ = 0 dBm	85
Figure 5-53: Cumulative distribution function of $P_{rdB}$ for $P_{rdB} = 0$ dBm	86
Figure 5-54: Cumulative distribution function of $P_{rdB}$ for $P_{rdB}$ for $P_{rdB}$ = 0 dBm, log scale	86
Figure 5-55: RE/RS coupling between high and low power RF units inside the CM cavity	87
Figure 5-56: Worst case power received by an EED from the RF environment according to the frequency, for E = 145 dB <sub>μ</sub> V/m	89
Figure 5-57: CCS of generic twisted shielded pairs of various lengths loaded by various impedances	

Figure 5-58: Main parts of A5 (courtesy of EADS Astrium)	94
Figure 5-59: CAD model of the lightning protection system of A5, with the relevant peak current levels (courtesy of EADS Astrium)	95
Figure 5-60: Photograph and CAD model of the lightning protection system of A5 (courtesy of EADS Astrium)	96
Figure 5-61: Meshing of A5 and its lightning protection system for FDTD, indirect stroke (courtesy of EADS Astrium)	97
Figure 5-62: Meshing of A5 for FDTD, direct stroke (courtesy of EADS Astrium)	97
Figure 5-63: Lightning stroke current shape	98
Figure 5-64: Current distribution along A5 launcher (courtesy of EADS Astrium)	99
Figure 5-65: Cross-section of the harness and cable duct used to derive the line parameters, then used in the network simulation	99
Figure 5-66: Network simulation of lighting stroke coupling to some launcher cables	.100
Figure 5-67: Voltage and current on the launcher external cables, due to a lightning stroke (simulation results)	101
Figure 5-68: A5 payload coupling modes	102
Figure 5-69: Model of the umbilical cable bundle for the calculation of internal voltages induced by the lightning current	103
Figure 5-70: Common mode voltage for a shield current lsh = 1 A	.103
Figure 5-71: Coupling of lighting stroke induced magnetic field to an external shielded harness of a satellite under the fairing	104
Figure 5-72: Magnetic coupling model results for a shield current Ish = 1A	.104
Figure 5-73: Result of a DC magnetic field simulation involving MTBs	.106
Figure 5-74: Tentative of "EMC oriented" grounding diagram	.106
Figure 5-75: Example of EICD grounding diagram	107
Figure 5-76: Example of grounding diagram to be avoided	.107
Figure 5-77: TerraSAR-X and TanDEM-X Spacecraft Constellation Flight	.110
Figure 5-78: TerraSAR-X and TanDEM-X in helix flight formation	.111
Figure 5-79: Magnetic Test Facility MFSA with Rosetta Lander (courtesy of IABG)	.113
Figure 5-80: CNES Magnetic laboratory "J.B. BIOT", compensation and simulation coils (courtesy of CNES)	114
Figure 5-81: CNES Magnetic laboratory "J.B. BIOT", perm and deperm coils (courtesy of CNES)	115
Figure 5-82: CNES Magnetic laboratory "J.B. BIOT", geometry of the compensation and of the simulation coils	115
Figure 6-1: Trapezoidal signal with 50% duty cycle	
Figure 6-2: Spectrum of a trapezoidal signal with 50% duty cycle	.119
Figure 6-3: Clock signal routed on the top layer of a PCB	.120
Figure 6-4: Spectrum radiated by a clock signal routed on the top layer of a PCB	.120
Figure 6-5: Small loop model for differential mode radiated emission	.121
Figure 6-6: Limitation of rise and fall times	.122

Figure 6-7: Example of PCB ground plane connection to chassis for a modular unit	124
Figure 6-8: Ground plane connection to chassis - Example with a backplane	125
Figure 6-9: Good practice to achieve GND plane electrical continuity to chassis via surface contact using card lock retainers (also called wedge locks)	125
Figure 6-10: Alternative method using multiple screws to minimize current constriction effects	126
Figure 6-11: Common mode current segregation at PCB level	126
Figure 6-12: Canonical model showing the three essential functions of a DC/DC converter	133
Figure 6-13: Model of the general switching-mode regulator with addition of an input filter and incorporation of the canonical model	134
Figure 6-14: Simplified circuit example of open-loop input impedance	135
Figure 6-15: Voltage and current snubbers	136
Figure 6-16: One-cell low-pass LC filter	136
Figure 6-17: LC filter with parallel RC damping	137
Figure 6-18: Example of double cell filter	138
Figure 7-1: Rotational magnetic measurement	140
Figure 7-2: Mobile Coil Facility	141
Figure 7-3: Illustration of most narrow protuberance and maximum signal	142
Figure 7-4: Optimal distance for magnetic measurements	143
Figure 7-5: Measurements for spherical harmonics modelling: regular coverage of a sphere	
Figure 7-6: The "six-point method"	
Figure 7-7: Improved "six-point method"	148
Figure 7-8: Perm B-Field	149
Figure 7-9: Deperm H-Field (not to scale)	149
Figure 7-10: Deperm signal as measured with an air-core coil at the centre of the coil system of the "Ulysses" MCF of ESTEC	150
Figure 7-11: Steps of induced magnetic moment measurement	152
Figure 7-12: Example of rotational measurement at 10 cm (central sensor) from the component under test; magnetic moment = 0,13 mAm <sup>2</sup>	153
Figure 7-13: BIPM method for magnetic susceptibility measurement	154
Figure 7-14: Real and imaginary parts of AC magnetic susceptibility	156
Figure 7-15: DC/DC converter equivalent model for primary to secondary parasitic capacitance measurement	157
Figure 7-16: Primary to secondary parasitic capacitance measurement, step 1	157
Figure 7-17: Primary to secondary parasitic capacitance measurement, step 2	158
Figure 7-18: Low frequency electric field measurement set-up	159
Figure 7-19: Sniff antenna made of a coax-waveguide transition and dielectric spacer	161
Figure 7-20: Example of test set-up for UHF/SHF sniff test	161

Figure 7-21: Simulation illustrating the modal structure of the field	163
Figure 7-22: Mechanical stirring/tuning principle	164
Figure 7-23: Measurement of the quality factor of a reverberation chamber	165
Figure 7-24: Computation and measurement of the quality factor of a reverberation chamber	166
Figure 7-25: Calibration of Reverberation chamber	168
Figure 7-26: Standard deviation of the field corresponding to a good quality of stirring (DO-160)	168
Figure 7-27: Shielding effectiveness measurement in a reverberation chamber	172
Figure 7-28: Shielding effectiveness measurement of an empty enclosure in a reverberation chamber	172
Figure 7-29: Injection probe clamped on a quasi-short-circuit	174
Figure 7-30: Equivalent circuit of an injection probe clamped on a low impedance circuit	174
Figure 7-31: Maximum injected current according to the frequency	175
Figure 7-32: Injection probe clamped on a cable with one high impedance end	175
Figure 7-33: Equivalent circuit of an injection probe clamped on a cable with one high impedance end	176
Figure 7-34: Maximum induced voltage according to the frequency	176
Figure 7-35: "True" differential and common mode current probe set-ups	177
Figure 7-36: DM CS, 100 kHz to 10 MHz, with balanced injection set-up and CM voltage monitoring	177
Figure 7-37: Test demonstrating passive voltage probe shortcomings	178
Figure 7-38: Comparison of voltage measured with a passive 1:10 voltage probe, an active differential voltage probe and a coupler (reference measurement)	178
Figure 7-39: Slow CS DM transient by commutation between 2 power supplies	180
Figure 7-40: Example 1 of slow transient requirement	180
Figure 7-41: Example 2 of slow transient requirement	
Figure 7-42: Test method 1 using a fast 4-quadrant power supply	
Figure 7-43: Test method 2 with dedicated pulse amplifier	
Figure 7-44: Simplified circuit diagram of a pulse amplifier	182
Figure 7-45: Circuit diagram of a 50 $\Omega$ -charged line pulse generator	184
Figure 7-46: Pulse injection calibration setup	184
Figure 7-47: Typical CS115 transient shape due to inductive coupling mechanisms inside the injection probe	185
Figure 7-48: Calibration setup to determine the broadband transfer impedance of a current probe	
Figure 7-49: Set up for CS115 transient tests acc. MIL-STD-461F	187
Figure 7-50: Set-up configuration for Bulk Current Injection (a) and example of injection probe represented as a three-port device (b).	188
Figure 7-51: "Implicit" model of an injection probe	189

Figure 7-52: Cross-sectional view of an injection probe	.190
Figure 7-53: "Explicit" lumped-parameter circuit model of an injection probe clamped onto a conductor under test	.190
Figure 7-54: DBCI test setup. (a) Block diagram. (b) Circuit model	.191
Figure 7-55: Currents induced by radiation and DBCI	
Figure 7-56: RS at unit level with vertically polarized electric field	.193
Figure 7-57: Magnitude of current distribution induced along cable shield at 275 MHz	.193
Figure 7-58: Example of test set-up for UHF/SHF spray	.194
Figure 7-59: Radiated susceptibility set up inside reverberation chamber	.196
Figure 8-1: Spherical harmonics up to degree 3	.203
Figure 8-2: Failure power (resp. energy) as a function of transient duration	.204
Figure 8-3: Gaussian distribution of the real and imaginary parts of each component of the field, occurring when the number of modes is large enough	.206
Figure 8-4: Probability density function of E <sub>i</sub> <sup>2</sup> <sub>dB</sub> or E <sub>idB</sub> and E <sup>2</sup> <sub>dB</sub> or E <sub>dB</sub> (arbitrary "location" parameter), log scale	.208
Figure 8-5: Circular aperture in a conductive plane	.210
Figure 8-6: Normalised effective area of a circular aperture	.211
Figure 8-7: Low frequency AC magnetic shielding effect of a unit metallic case	.212
Figure 8-8: H-field attenuation by a unit enclosure according to the frequency	.212
Figure 8-9: Shielding effectiveness of an infinite copper plane of 254 µm for a source at 1 m	.214
Figure 8-10: Waveguide attenuation effect for deep apertures	.216
Figure 8-11: Rectangular box with a rectangular slot illuminated by an incident plane wave, showing axes and dimensions	.217
Figure 8-12: Comparison of ILCM with CST and FEKO (case 1)	.218
Figure 8-13: Comparison of ILCM with CST (case 2)	.219
Tables	
Table 5-1: Example of RE notch requirement	
Table 5-2: Some results of EED sensitivity to pulsed RF power	
Table 6-1: Examples of parts/unit magnetic properties	.128
Table 6-2: Magnetic field close to the surface of D connectors after exposure to a field of 0,5 T	.132
Table 6-3: Transformer ratio and effective inductance value in the canonical model for different types of converters	.133
Table 7-1: Comparison of (total) average received power and (total) maximum received power test methods	
Table 8-1: Schmidt Quasi-Normalized Spherical Harmonics [79]	.201
Table 8-2: Cases for the comparison of the Intermediate Level Circuit Model method with CST and FEKO (from [88])	.218

## **European Foreword**

This document (CEN/TR 17603-20-07:2022) has been prepared by Technical Committee CEN/CLC/JTC 5 "Space", the secretariat of which is held by DIN.

It is highlighted that this technical report does not contain any requirement but only collection of data or descriptions and guidelines about how to organize and perform the work in support of EN 16603-20.

This Technical report (CEN/TR 17603-20-07:2022) originates from ECSS-E-HB-20-07A.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any TR covering the same scope but with a wider domain of applicability (e.g.: aerospace).

## Introduction

The purpose of the present handbook is to support the use of ECSS-E-ST-20-07C. It aims at providing practical and helpful information for electromagnetic compatibility (EMC) in the development of space equipment and systems.

an and inc. It gathers EMC experience, know-how and lessons-learnt from the European Space Community with the intention to assist project groups and individual implementers.

# 1 Scope

The objective of this EMC Handbook is to point out all the issues relevant to space systems EMC, to provide a general technical treatment and to address the interested reader to more thorough and indepth publications.

**NOTE** 

It is possible to find fundamental and advanced treatment of many aspects related to EMC: many universities offer courses on EMC and a large number of textbooks, papers and technical documents are available. Therefore replicating in this Handbook the available knowledge is impractical and meaningless.

Emphasis is given to space systems EMC design, development and verification, and specifically to the practical aspects related to these issues.

**NOTE** 

This has been possible thanks to the collaboration of space industry, especially on items which are not textbook issues and whose solution needs the widespread experience gained in large number of projects.

# References

EN Reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01	ECSS System: - Glossary of terms
EN 17603-20	ECSS-E-ST-20	Space engineering - Electric and electronic
EN 17603-20-07	ECSS-E-ST-20-07	Space engineering - Electromagnetic compatibility
EN 17603-33-11	ECSS-E-ST-33-11	Space engineering - Explosive systems and devices
EN 17603-10-03	ECSS-E-ST-10-03	Space engineering – Testing
EN 17602-70-71	ECSS-Q-ST-70-71	Space product assurance - Materials, processes and their data selection
		Series of the se