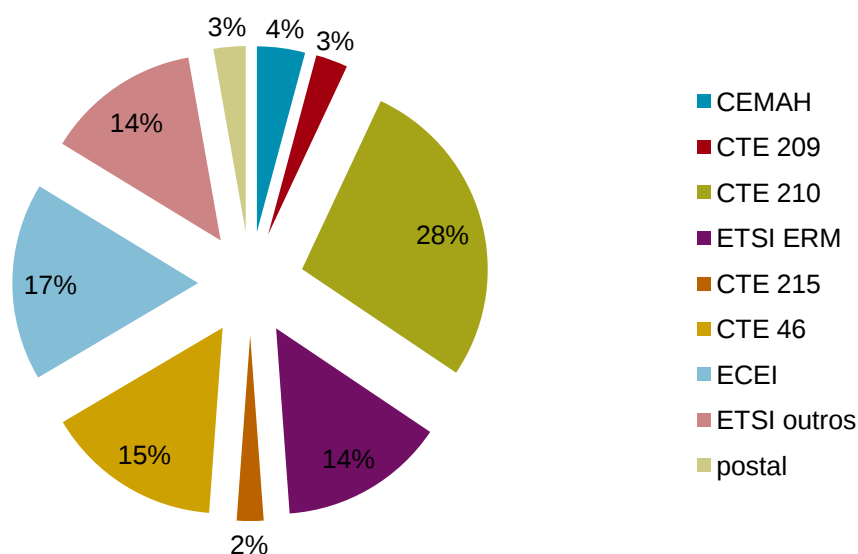


Actividade ONS ICP-ANACOM em 2010

Em 2010 a actividade desenvolvida no âmbito do ONS ICP-ANACOM – Organismo de Normalização para as telecomunicações, actividade postal e compatibilidade electromagnética, caracterizou-se por cerca de 200 consultas, distribuídas por temática de acordo com o seguinte gráfico:

Organismo de Normalização Sectorial Consultas aos Comités Técnicos em 2010



Estas consultas têm origem nos Organismos de Normalização ETSI¹, CEI², CEN³ e CENELEC⁴, sendo participadas pelas Comissões Técnicas Electrotécnicas Nacionais:

CTE 46 - Cabos, fios e guias de onda para equipamento de telecomunicações⁵

CTE 210 – Compatibilidade Electromagnética⁶

CTE 215 - Aspectos electrotécnicos de equipamento de telecomunicações⁷

CTE 209 - Redes de cabo para sinais de televisão, sinais de som e serviços interactivos⁸

¹ ETSI: European Telecommunications Standards Institute - <http://www.etsi.org>

² IEC: Commission Electrotechnique Internationale - <http://www.iec.ch/>

³ CEN: European Committee for Standardization - <http://www.cen.eu/>

⁴ CENELEC: European Committee for Electrotechnical Standardization - <http://www.cenelec.eu>

⁵ <http://www.anacom.pt/render.jsp?categoryId=166702>

⁶ <http://www.anacom.pt/render.jsp?categoryId=182542>

⁷ <http://www.anacom.pt/render.jsp?categoryId=333110>

⁸ <http://www.anacom.pt/render.jsp?categoryId=333105>

Não estando ainda constituídas formalmente Comissões Técnicas no âmbito de CEMAH - Impacto das radiações electromagnéticas no ambiente humano - e actividade postal, o ONS ICP-ANACOM promove consultas a grupos de interessados.

RELATÓRIO DE ACTIVIDADE DA CTE 46 EM 2010

CTE 46 - Cabos, fios e guias de onda para equipamento de telecomunicações⁹

A CTE 46 participou na votação e emitiu comentários para os seguintes documentos normativos com **origem no IEC**:

- **no âmbito do TC 46 – Cables, wires, waveguides, R.F. connectors, R.F. and microwave passive components and accessories**

IEC 62037 Ed. 1.0: Passive r.f. and microwave devices, intermodulation level measurement:

IEC 61935 Ed. 3.0: Specification for the testing of balanced and coaxial information technology cabling

IEC 62153-4-14 Ed. 1.0: Metallic communication cable test methods

- **no âmbito do SC 46A – Coaxial Cables**

IEC 61196: Coaxial communication cables:

IEC 60096 Ed. 3.0: Radio Frequency Cables

- **no âmbito do SC 46C – Wires and Symmetric Cables**

IEC/TS 61156-1-x Ed. 1.0: Multicore and symmetrical pair/quad cables for digital communication

IEC/TR 62222 Ed. 2.0: Fire performance of communication cables installed in buildings - Update new methods of fire retardancy

- **no âmbito do SC 46F - RF and microwave passive components**

IEC 61169-14 Ed.1.0: Radio-frequency connectors

A CTE 46 participou na votação e emitiu comentários para os seguintes documentos normativos com **origem no CENELEC**:

- EN 50288: Multi-element metallic cables used in analogue and digital communication and control
- EN 50441: Cables for indoor residential telecommunication installations
- EN 50289: Communication cables - Specifications for test methods

⁹ <http://www.anacom.pt/render.jsp?categoryId=166702>

RELATÓRIO DE ACTIVIDADE DA CTE 210 EM 2010

CTE 210 – Compatibilidade Electromagnética¹⁰

A CTE 210 participou na votação e emitiu comentários para os seguintes documentos normativos com **origem no IEC**:

no âmbito do TC 77 - Electromagnetic compatibility (Compatibilidade electromagnética)

IEC 61000-1-6 Ed.1: ELECTROMAGNETIC COMPATIBILITY (EMC) – Part 1-6: General – Guide to the assessment of measurement uncertainty

IEC 61000-2-5: Electromagnetic compatibility (EMC) – Part 2-5: Environment – Classification of electromagnetic environments

IEC 61000-6-7 Ed. 1: ELECTROMAGNETIC COMPATIBILITY (EMC) - Part 6-7: Generic standards - Immunity requirements for safety-related systems and equipment intended to perform functions in a safety-related system (functional safety) in industrial environments

no âmbito do TC 77A - Low frequency phenomena (Fenómenos de baixa frequência - $f \leq 9$ kHz)

IEC 61000-3-2: Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)

IEC 61000-3-12 Ed.2: ELECTROMAGNETIC COMPATIBILITY (EMC) – Part 3-12: Limits – Limits for harmonic currents produced by equipment connected to public low voltage systems with input current >16 A and ≤ 75 A per phase

IEC 61000-3-15 Ed.2: Electromagnetic compatibility (EMC) - Part 3-15: Limits - Assessment of low frequency electromagnetic immunity and emission requirements for dispersed generation systems in LV network

IEC 61000-4-11 Ed. 2.0: Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests

IEC 61000-4-15 Ed.2: Electromagnetic compatibility (EMC) – Part 4-15: Testing and measurement techniques – Flickermeter – Functional and design specifications

IEC 61000-4-22 Ed.1: Electromagnetic compatibility (EMC) – Part 4-22: Testing and measurement techniques – Radiated emissions and immunity measurements in fully anechoic rooms (FARs)

IEC 61000-4-30 Ed. 3.0: Electromagnetic compatibility (EMC) : Testing and measurement techniques – Power Quality Measurement Methods"

¹⁰ <http://www.anacom.pt/render.jsp?categoryId=182542>

no âmbito do TC 77B - High frequency phenomena

(Fenómenos de alta frequência - ca > 9 kHz)

IEC 61000-4-3 A2 Ed 3.0: Measurement uncertainty due to test instrumentation

IEC 61000-4-4 – Electromagnetic compatibility (EMC) – Part 4-4 : Testing and measurement techniques – Electrical fast transient/burst immunity test

IEC 61000-4-6 - ELECTROMAGNETIC COMPATIBILITY (EMC) – Part 4-6: Testing and measurement techniques – Conducted disturbances, induced by radio-frequency fields immunity test

IEC 61000-4-20 – Electromagnetic compatibility (EMC) - Part 4-20: Testing and measurement techniques – Emission and immunity testing in transverse electromagnetic (TEM) waveguides

no âmbito do TC 77C - High power transient phenomena

(Fenómenos transitórios de elevada potência)

IEC 61000-2-13: Electromagnetic compatibility (EMC) – Part 2-13: IEMI Immunity Test Methods for Equipment and Systems

no âmbito do CISPR - International special committee on radio interference

(Comité Internacional especializado em interferências radioelétricas)

CISPR/SC A - Radio-interference measurements and statistical methods

(Medição de interferência radioelétrica e métodos estatísticos)

CISPR 16-1-1 A1 Ed.3: Inclusion of FFT based test instrumentation

CISPR 16-1-4 Ed.3: Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-4: Radio disturbance and immunity measuring apparatus – Antennas and test sites for radiated disturbance measurements

CISPR 16-1-5: "Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-5: Radio disturbance and immunity measuring apparatus – Antenna calibration test sites for 30 MHz to 1 000 MHz

CISPR 16-1-6: Specification for radio disturbance and immunity measuring apparatus and methods – Part 1-6: Radio disturbance and immunity measuring apparatus – EMC-antenna calibration

CISPR 16-2-1 A1 Ed.2 : Specifications for measurements using FFT-based measuring instrumentation

CISPR 16-2-3 Ed.3: Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements

Proposed revision of CISPR 16-2-3 on application of CMADs

CISPR 16-3 Ed.3.0: Specification for radio disturbance and immunity measuring apparatus and methods - Part 3: CISPR technical reports

CISPR 16-4-2 Ed.2: Specification for radio disturbance and immunity measuring apparatus and methods – Part 4-2: Uncertainties, statistics and limit modelling – Measurement instrumentation uncertainty

CISPR 17 Ed.2 : Methods of measurement of the suppression characteristics of passive EMC filtering devices

CISPR/SC B - Interference relating to industrial, scientific and medical radio-frequency apparatus, to other (heavy) industrial equipment, to overhead power lines, to high equipment and to electric traction

(Interferências ocasionadas por aparelhos de radiofrequência industriais, científicos e médicos, noutro equipamento industrial (pesado), em linhas de distribuição de energia, suportadas em postes, em equipamento de alta voltagem e de tracção eléctrica)

CISPR 11 Ed. 5: Selection criteria for the minimum separation distance between EUT and measurement antenna

CISPR TR 18-1 Ed. 2: Radio interference characteristics of overhead power lines and high-voltage equipment - Part 1: Description of phenomena

CISPR TR 18-2 Ed. 2: Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits

CISPR TR 18-3 Ed. 2: Radio interference characteristics of overhead power lines and high-voltage equipment - Part 3: Code of practice for minimizing the generation of radio noise

CISPR/SC D - Electromagnetic disturbances related to electric/electronic equipment on vehicles and internal combustion engine powered devices

(Perturbações electromagnéticas relativas a equipamento eléctrico/electrónico instalado em veículos e noutros dispositivos com motores de combustão interna)

CISPR 25 f2 Ed. 4.0: Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers Annex on ALSE Performance Verification 150 kHz - 1 GHz

CISPR/SC F - Interference relating to household appliances tools, lighting equipment and similar apparatus

(Interferências relativas a aparelhos electrodomésticos, ferramentas, equipamento de iluminação e similares)

CISPR 14-1 Am. 2 Ed.5: Inclusion of induction cooking appliances

CISPR/SC H - Limits for the protection of radio services

(Limites para protecção de serviços Radioeléctricos)

IEC 61000-6-4 A1 Ed.2: Electromagnetic compatibility (EMC) - Part 6-4: Generic standards – Emission standard for industrial environments

CISPR/SC I – Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers

(Compatibilidade electromagnética para equipamento de tecnologias de informação, equipamento multimédia e receptores)

"CISPR 24 Ed.2: Information technology equipment – Immunity characteristics – Limits and methods of measurement"

"CISPR 32 Ed. 1: Electromagnetic compatibility of information technology equipment, multimedia equipment and receivers

A CTE 210 participou na votação e emitiu comentários para os seguintes documentos normativos com **origem no CENELEC**:

TR 50538 - Guide to EMC Directive conformity of equipment designed for military purposes

EN 55020 - Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement -Interpretation of Clause I.7

EN 55022 - Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement

A CTE 210 participou na votação e emitiu comentários de trabalhos com origem no **comité de ERM (Electromagnetic compatibility and Radio spectrum Matters) do ETSI** no âmbito de:

- Digital Selective Calling (DSC) in the maritime MF, MF/HF and/or VHF mobile service
- Short Range Devices (SRD)
- Short Range Devices (SRD) using Ultra Wide Band technology (UWB)
- Land Mobile Service
- Satellite Earth Stations and Systems (SES)
- Base Stations (BS)
- Terrestrial Trunked Radio (TETRA)
- AERO
- Road Transport and Traffic Telematics (RTTT)
- Transmitting equipment for the digital television broadcast service, Terrestrial (DVB-T)
- Intelligent Transport Systems (ITS)
- Data Link Services (DLS) System

RELATÓRIO DE ACTIVIDADE DA CTE 215 EM 2010

CTE 215 - Aspectos electrotécnicos de equipamento de telecomunicações¹¹

A CTE 215 participou na votação e emitiu comentários para os seguintes documentos normativos com **origem no CENELEC/TC 215**:

EN 50173 - Information technology - Generic cabling systems:

- Part 1: General requirements
- Part 2: Office premises
- Part 3: Industrial premises
- Part 4: Homes
- Part 5: Data centres

EN 50174 - Information technology - Cabling installation

- Part 1: Installation specification and quality assurance
- Part 2: Installation planning and practices inside buildings

EN 50310 - Application of equipotential bonding and earthing in buildings with information technology equipment

¹¹ <http://www.anacom.pt/render.jsp?categoryId=333110>

RELATÓRIO DE ACTIVIDADE DA CTE 209 EM 2010

CTE 209 - Redes de cabo para sinais de televisão, sinais de som e serviços interactivos¹²

A CTE 209 participou na votação e emitiu comentários para os seguintes documentos normativos com **origem no IEC/TC 100 (TA5)**:

IEC 60728- Cable networks for television signals, sound signals and interactive services:

Part 3: Active wideband equipment for cable networks

Part Part 3-1: Methods of measurement of non-linearity for full digital channel load

Part 6: Optical equipment

Part 11: Cable networks for television signals, sound signals and interactive

Part 13-1: Bandwidth Expansion for Broadcast Signal over FTTH system

¹² <http://www.anacom.pt/render.jsp?categoryId=333105>

RELATÓRIO DE ACTIVIDADE DE CEMAH EM 2010

CEMAH - Impacto das radiações electromagnéticas no ambiente humano

Na temática CEMAH tem sido consultado um grupo de entidades interessadas (ainda não constituídas em comissão técnica), o qual tem votado ou comentado os seguintes trabalhos:

trabalhos provenientes do TC 106X do CENELEC

EN 50554 - Basic standard for the in-situ assessment of a broadcast site related to general public exposure to radio frequency electromagnetic fields

EN 50527-2-1 - Procedure for the assessment of the exposure to electromagnetic fields of workers bearing active implantable medical devices - Part 2-1: Specific assessment for workers with cardiac pacemakers

trabalhos provenientes do TC 106 do IEC

IEC 62209 Ed.1: Human exposure to radio frequency fields from hand-held and bodymounted wireless communication devices – Human models, instrumentation, and procedures –

Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)

IEC 62232: Determination of RF field strength and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure

IEC 62479 Ed.1: Assessment of the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz)

IEC 62669 DTR: Case studies supporting IEC 62232 Ed.1 - Determination of RF field strength and SAR in the vicinity of radiocommunication base stations for the purpose of evaluating human exposure

Novos documentos normativos (“new working item”) introduzidos:

- Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices, 30 MHz - 6 GHz: General Requirements for using the Finite-Difference Time:
 - Domain (FDTD) Method for SAR Calculations
 - Domain (FDTD) Method for SAR Calculations of Mobile Phones
- Guidance for evaluating exposure from multiple electromagnetic sources: Specific Requirements for assessing the Specific Absorption Rate (SAR) from multiple transmitters used in close proximity to the human head
- Specific Absorption Rate (SAR) in the Human Body from Wireless Communications Devices: Specific Requirements for Finite Difference Time Domain (FDTD) Modelling of Exposure from Vehicle Mounted Antennas

RELATÓRIO DE ACTIVIDADE NORMATIVA POSTAL EM 2010

Na temática de normalização postal tem sido consultado um grupo de entidades interessadas (ainda não constituídas em comissão técnica), o qual votou e/ou comentou em 2010 os seguintes trabalhos provenientes do CEN/TC 331 e UPU:

Novos documentos normativos (“new working item”) introduzidos:

- CEN/TC 331 - N1020 - Activation of a preliminary new work item Postal services — Open Interface between Machine Control and Reading
- CEN/TC 331 - N1018 - Extensible Common Structure and Representation for Postal Rates
- CEN/TC 331 - N1019 - Addresses and Automatic Identification of Items — Extensible Postal Product Model and Language (EPPML)
- CEN/TC 331 – N1031 - Circulation of 1st Working Draft of WI 00331083 – Postal services — Open Interface between Machine Control and Reading Coding System — MC/RC-Interface
- CEN/TC 331 - N1032 - Postal services — Open interface – Sortplan
- CEN/TC 331 - N1033 - Postal Services – Hybrid Mail – Functional Specification for postal registered electronic mail

CEN/TS15523 – Postal service — Statement of mailing submission

CEN/TR15524 – Postal Services - Customer-directed Information including Track and Trace - General concepts and definitions

CEN/TR 14142-2 - Postal Services - Address databases - Part 2: Element mapping conventions, template design considerations, address templates and rendition instructions

CEN/TS 15121-1 - Postal Services - Hybrid Mail:

Part 1: Secured electronic postal services (SePS) interface specification - Concepts, schemas and operations

Part 2: Secured electronic postal services (SePS) interface specification - ECPM Service

EN 14482 - Postal service - Trays for international letter mail - Test methods and performance requirements

EN 14142-1 - Postal services - Address databases - Part 1: Components of postal addresses