

SLOVENSKI STANDARD oSIST prEN IEC 63322:2024

01-maj-2024

Varnost medicinske električne opreme, ki vsebuje visokoaktivne zaprte radioaktivne vire

Security of medical electrical equipment containing high-activity sealed radioactive sources

iTeh Standards

Sécurité des appareils électromédicaux contenant des sources radioactives scellées de haute activité

Ta slovenski standard je istoveten z: prEN IEC 63322:2024

ICS:

11.040.50 Radiografska oprema Radiographic equipment

oSIST prEN IEC 63322:2024 en

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oSIST prEN IEC 63322:2024

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62C/907/CDV

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IEC SC 62C : EQUIPMENT FOR RADIOTHERAP	Y, NUCLEAR MEDICIN	IE AND RADIATION DOSIMETRY
SECRETARIAT:		SECRETARY:
Germany		Ms Regina Geierhofer
OF INTEREST TO THE FOLLOWING COMMITTEES:		PROPOSED HORIZONTAL STANDARD:
		Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.
FUNCTIONS CONCERNED:		
	ONMENT	☐ QUALITY ASSURANCE ☐ SAFETY
SUBMITTED FOR CENELEC PARALLEL VOT	TING TEH St	NOT SUBMITTED FOR CENELEC PARALLEL VOTING
Attention IEC-CENELEC parallel voting		donde itale ei
The attention of IEC National Committee CENELEC, is drawn to the fact that this Co Vote (CDV) is submitted for parallel voting.	ommittee Draft for	dards.iteh.ai) nt Preview
The CENELEC members are invited to CENELEC online voting system.	ů.	EC 63322:2024
://standards.iteh.ai/catalog/standards	s/sist/f8a3b301-	a112-45ac-975d-a2806db28351/osist-pren-iec-6332.
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TITLE:		
Security of Medical Electrical Equip	ment Containing	High-Activity Sealed Radioactive Sources
PROPOSED STABILITY DATE: 2030		
NOTE FROM TC/SC OFFICERS:		

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SECURITY OF ME EQUIPMENT CONTAINING HIGH-ACTIVITY SEALED RADIOACTIVE SOURCES

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IEC 63322 has been prepared by subcommittee SC 62C: Equipment for radiotherapy, nuclear medicine and radiation dosimetry, of IEC technical committee TC 62: Medical equipment, software, and systems. It is an International Standard containing requirements to protect the MEDICAL ELECTRICAL EQUIPMENT using high-activity RADIOACTIVE SOURCES against unauthorized access for malicious purposes. The standard complements safety standards by addressing risks such as the unauthorized removal, and other malicious use, of the RADIOACTIVE SOURCES contained in the equipment.

This standard is the first IEC standard to address the security of ME EQUIPMENT using radioactive sources. It provides requirements that are directed both to the MANUFACTURER of ME EQUIPMENT as well as to the RESPONSIBLE ORGANIZATION using ME EQUIPMENT. The requirements are strictly separated in different Clauses for the MANUFACTURER and the RESPONSIBLE ORGANIZATION to facilitate certification.

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The text of this International Standard is based on the following documents: 223

Draft	Report on voting
XX/XX/FDIS	62C/761//RVD

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225 Full information on the voting for its approval can be found in the report on voting indicated in 226 the above table.

227 228

The language used for the development of this International Standard is English (United Kingdom).

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This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available 230 231 at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications. 232

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The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed, 236
- withdrawn, 237
- replaced by a revised edition, or 238
- amended. 239

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INTRODUCTION

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No patent rights identified. 242 243 Aware of the need and the urgency for a standard that aims at protecting ME EQUIPMENT containing high-activity RADIOACTIVE SOURCES from unauthorized access, 20 participating 244 members of the National Committees voted in February 2020 in favor of establishing a security 245 standard to address this risk. 246 This standard addresses security of ME EQUIPMENT, and therefore deviates somewhat from the 247 structure established by 60601-1 for standards that are defined as safety standards only. This 248 standard does not in any way impact on the implementation of, or adherence to, the 249 requirements of 60601-1 regarding BASIC SAFETY and ESSENTIAL PERFORMANCE. 250 The MANUFACTURER and the RESPONSIBLE ORGANIZATION both have responsibilities for the secure 251 use of ME EQUIPMENT containing high-activity RADIOACTIVE SOURCES. This standard establishes 252 security requirements for the two entities based on an assumption of the threat. The appropriate 253 254 national regulators and other competent organizations will provide additional input regarding 255 the threat level and in response to a security event. 256 The MANUFACTURER of ME EQUIPMENT containing high-activity RADIOACTIVE SOURCES will have responsibility for the requirements that relate to the ME EQUIPMENT itself, such as the 257 equipment's design, the use of materials and components, and other measures that will 258 increase the equipment's physical resistance against attempts to remove the RADIOACTIVE 259 260 SOURCES unlawfully, including devices that provide a warning in case of such an attempt. The RESPONSIBLE ORGANIZATION will have responsibility for the security requirements that relate 261 to the location where the equipment is used or stored, that the staff is well informed and that 262 there are actions planned in case there is a security event. The implementation of a SECURITY 263 CULTURE supported by the leadership of the RESPONSIBLE ORGANIZATION will be both necessary 264 and important to maintain effectiveness of the security system. 265 The requirements of this standard will be objectively tested by an accredited test house. A 266 certificate will communicate compliance with this standard and help to build trust among the 267 users and with patients and the public. The overall impact of all measures taken by the 268 MANUFACTURER and by the RESPONSIBLE ORGANIZATION will contribute to reducing the risk that 269 perpetrators may succeed in attempts to illegally access and remove the RADIOACTIVE SOURCES 270 from the ME EQUIPMENT. 271 The methodology, including the numerical parameters expressed in EN1143-1:2019 "Secure 272 storage units - Requirements, classification and methods of test for resistance to burglary" -273 Part 1: Safes, ATM safes, strongroom doors and strongrooms is used to quantify the required 274 physical resistance of SECURED ME EQUIPMENT against unauthorized removal of the RADIOACTIVE 275 276 SOURCE(s). 277 278 279 280

SECURITY OF ME EQUIPMENT CONTAINING HIGH-ACTIVITY SEALED RADIOACTIVE SOURCES

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1 Scope, object and related standards

1.1 Scope

This document establishes security requirements of ME EQUIPMENT using high activity SEALED RADIOACTIVE SOURCES, directly or indirectly, for medical treatment and other clinical procedures. ME EQUIPMENT containing SEALED RADIOACTIVE SOURCES that are defined as Category 1, 2 and 3 radioactive sources by IAEA¹ are subject to this standard.

1.2 Object

The object of this standard is to specify requirements for the security of ME EQUIPMENT containing high activity SEALED RADIOACTIVE SOURCES with the aim to minimize the risk of unauthorized access to the contained RADIOACTIVE SOURCES, and to serve as the basis for particular standards. This standard contains requirements for the MANUFACTURER of the ME EQUIPMENT and, separately, for the RESPONSIBLE ORGANIZATION regarding security at the location during use and storage.

The requirements of this standard apply when the RADIOACTIVE SOURCE(s) are contained in the ME EQUIPMENT, i.e. from the time when the RADIOACTIVE SOURCE(s) are inserted into the ME EQUIPMENT, during the INTENDED USE and when the ME EQUIPMENT is not being used for its INTENDED PURPOSE or taken out of regular use, until the equipment is being decommissioned, i.e. until all RADIOACTIVE SOURCE(s) are permanently removed from the equipment.

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1.3 Related standards

The following ISO/IEC standards are related to the safety of ME EQUIPMENT containing RADIOACTIVE SOURCES.

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- 307 308 309
- IEC 60601-1-8: Medical electrical equipment Part 1-8: General requirements for basic safety and essential performance Collateral standard: General requirements, tests and guidance for alarm systems in ME EQUIPMENT and medical electrical systems
- IEC 60601-2-11: ME EQUIPMENT Part 2-11: Particular requirements for the basic safety and essential performance of gamma beam therapy equipment.
 - IEC 60601-2-17: ME EQUIPMENT Part 2-17: Particular requirements for the basic safety and essential performance of automatically controlled brachytherapy afterloading equipment.
 - PD IEC/TR 80001-2-5: Application of risk management for IT-networks incorporating medical devices – Part 2-5: Application guidance – Guidance on distributed alarm systems.
 - ISO 14971:2019: Medical devices Application of risk management to medical devices
 - ISO/TR 14971: Medical devices Guidance on the application of ISO 14971.

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¹ Categorization of radioactive sources – Vienna: International Atomic Energy Agency, 2005. (IAEA safety standards series, ISSN 1020-525X; no. RS-G-1.9) STI/PUB/1227 ISBN 92-0- 103905-0.

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- The following Nuclear Safety Standards and Nuclear Security Guidance published by the International Atomic Energy Agency (IAEA) are related to this standard:
- The IAEA Code of Conduct on the Safety and Security of Radioactive Sources IAEA, Vienna, 2004.
- Nuclear security recommendations on radioactive material and associated facilities: recommendations. Vienna: 2011. ISSN 1816-9317; no. 14, STI/PUB/1487 ISBN 987-92- 0-112110-3
 - Categorization of radioactive sources. Vienna, International Atomic Energy Agency, 2005., ISSN 1020-525X; STI/PUB/1227 ISBN 92-0-103905-0
 - Security of radioactive sources: implementing guide. IAEA nuclear security series, ISSN 1816-9317; no. 11 STI/PUB/1387, ISBN 978-92-0-102609-5
 - Nuclear security culture: implementing guide. Vienna: International Atomic Energy Agency, 2008. ISSN 1816-317; no. 7 STI/PUB/1347 ISBN 978-92-0-107808-7.
 - Computer Security Techniques for Nuclear Facilities, Technical Guidance. IAEA Nuclear Security Series No, 17-T(Rev.1).STI/PUB/1921, ISBN 978-92-0-123620-3

2 Normative references

- The following documents are referred to in the text in such a way that some or all their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.
- IEC-60601-1: Medical electrical equipment Part 1: General requirements for basic safety and essential performance.
 - EN-1143-1:2019: Secure storage units Requirements, classification and methods of test for resistance to burglary – Part 1: Safes, ATM safes, strongroom doors and strongrooms
- International treaties² contain obligations to be implemented by each State Party, i.e., commitments to make every effort to prevent unlawful access to radioactive materials, such as SEALED RADIOACTIVE SOURCEs. The international conventions that underpin this standard are:
 - The Convention on the Physical Protection of Nuclear Material from 1979 which entered into force in 1987 and its Amendment from 2005, which entered into force 2016.
 - The International Convention on the Suppression of Acts of Nuclear Terrorism from 2005, which entered into force in 2007.
- The Bibliography contains short-hand references to documents issued by other international organizations of relevance for the content of this document.

3 Terms and definitions

- IEC, ISO and the IAEA maintain terminology databases for use in standardization at the following addresses:
- IEC glossary: available at https://std.iec.ch/terms/terms.nsf/welcome?OpenForm

While the international treaties are binding to the State Parties, they do not contain requirements that are directly applicable or useful for the different target groups of this standard, the MANUFACTURER(s) of ME EQUIPMENT and the RESPONSIBLE ORGANIZATION as the equipment user. This standard provides requirements for how the ME EQUIPMENT shall be secured to protect against unauthorized access of the RADIOACTIVE SOURCES contained and for SECURITY ARRANGEMENTS in the location in which the ME EQUIPMENT is used or stored. These requirements are consistent with the intentions and goals of the international treaties.

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- ISO Online browsing platform: available at https://www.iso.org/obp 359
- IAEA Nuclear Safety and Security Glossary, 2022 (Interim) Edition³: available at 360 https://www.iaea.org/resources/publications/iaea-nuclear-safety-and-security-glossary 361

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- 363 3.1
- **ACCESS PATH** 364
- The path or route that one or more persons can take to arrive at the desired location or point in 365
- a defined location 366
- 3.2 367
- **ASSUMPTION OF THREAT** 368
- the set of assumptions used to set the level of the threat. The ASSUMPTION OF THREAT is used 369
- when performing risk assessments in general and VULNERABILITY ASSESSMENTS in particular 370
- 371 3.3
- **ATTACK PATHWAY** 372
- 373
- 374 the adversary must go through several time-ordered steps, where the steps may be the
- 375 exploitation of vulnerabilities, traversing areas and then the final step/task of defeating the
- 376 target
- 377 3.4
- 378 **BASIC VALUE**
- 379
- number in resistance units allocated to a particular tool 380
- 381 Note to entry: The basic value represents problems in obtaining, transporting, conditions (e.g. water cooling and
- power availability) and using the relevant tool at the site in question, and the necessary knowledge and experience 382
- 383 for its efficient use.
- [EN 1143-1:2019] 384
- 3.5 385
- Boltworkh.ai/catalog/standards/sist/f8a3b301-a112-45ac-975d-a2806db28351/osist-pren-iec-63322-2024 386
- mechanism by which a closed door is held such that, until it is in the withdrawn position, the 387
- 388 door cannot be opened
- 389 Note to entry: the term BOLTWORK is used only in Annex B.
- [EN 1143-1:2019] 390
- 391 3.6
- **CABINET** 392
- Storage unit which protects its contents against burglary and when closed has at least one 393
- internal side ≤ 1m length 394
- 395 Note to entry: The definition is adapted from the definition of a safe in EN1143-1:2019.
- 396 [EN 1143-1:2019]

 $^{^{3}}$ IAEA nuclear safety and security glossary, Terminology used in nuclear safety, nuclear security, radiation protection and emergency preparedness and response, 2022 (Interim) Edition, International Atomic Energy Agency.

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398 COMPLEMENTARY SECURITY ARRANGEMENT

- 399 Temporary SECURITY ARRANGEMENTS deemed necessary to protect against criminal or
- 400 intentional unauthorized acts during the time permanent protective measures are disabled or
- 401 absent or their effectiveness reduced
- 402 Note to entry: an example of a COMPLEMENTARY SECURITY ARRANGEMENT is a guard on duty when all or a part of the
- 403 permanent protective measures are disabled, which may be the case during service and maintenance. Another
- 404 example when COMPLEMENTARY SECURITY ARRANGEMENTS may be needed is when moving an equipment between two
- 405 protected areas.
- 406 3.8
- 407 **DUMMY SOURCE**
- 408 Source capsule without radioactive material inside with the same form and exterior dimensions
- 409 as the SEALED SOURCE used in the ME EQUIPMENT
- 410 Note to entry: dummy sources are used during testing of the ME EQUIPMENT to establish the RESISTANCE GRADE.
- 411 3.9
- 412 **INSIDER THREAT**
- 413 Threat of an INSIDER planning for or obtaining illicit access to the RADIOACTIVE SOURCE(s) in the
- 414 ME EQUIPMENT
- 415 3.10
- 416 INTRINSIC SECURITY
- The protection against unauthorized attempts to remove the RADIOACTIVE SOURCES that is either
- 418 built into the ME EQUIPMENT or added to or attached to the ME EQUIPMENT during installation, and
- that will remain attached to the ME EQUIPMENT during NORMAL USE
- 420 **3.11**
- 421 INTRUSION (https://standards.iteh.
- 422 Unauthorized act of compromising a system
- 423 Note to entry: the definition has been modified.
- 424 [IEC 62443-1-1, ed. 1.0 (2009)] _{OSIST prEN IEC 63322:2024}
- 425 **3.12**
- 426 Intrusion detection system
- 427 A system that contains the capability to detect an INTRUSION and also contains an alarm function
- 428 that is activated should an INTRUSION be detected
- **3.13**
- 430 **OPERATING TIME**
- 431 time during which a tool is used attempting to create a change in the test specimen
- 432 Note to entry: In the context of this standard, there are also operating times considered during which no visible
- modifications/changes are caused to the test specimen.
- 434 [EN 1143-1:2019]
- 435 **3.14**
- 436 RESISTANCE GRADE
- 437 classification designation for burglary resistance
- 438 [EN 1143-1:2019]