



# SLOVENSKI STANDARD SIST EN IEC 62705:2026

01-julij-2026

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**Jedrski objekti - Merilna in nadzorna oprema za zagotavljanje varnosti - Sistemi za nadzor sevanja (RMS): Značilnosti in življenjski cikel (IEC 62705:2022)**

Nuclear facilities - Instrumentation and control important to safety - Radiation monitoring systems (RMS): Characteristics and lifecycle (IEC 62705:2022)

Kerntechnische Anlagen - Leittechnische Systeme mit sicherheitstechnischer Bedeutung - Strahlungsüberwachungssysteme: Eigenschaften und Lebenszyklus (IEC 62705:2022)

Installations nucléaires - Instrumentation et contrôle commande importants pour la sûreté - Systèmes de surveillance des rayonnements (RMS): Caractéristiques et cycle de vie (IEC 62705:2022)

**Ta slovenski standard je istoveten z: EN IEC 62705:2026**

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**ICS:**

27.120.20 Jedrske elektrarne. Varnost Nuclear power plants. Safety

**SIST EN IEC 62705:2026**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN IEC 62705**

June 2026

ICS 27.120.20

English Version

**Nuclear facilities - Instrumentation and control important to  
safety - Radiation monitoring systems (RMS): Characteristics  
and lifecycle  
(IEC 62705:2022)**

Installations nucléaires - Instrumentation et contrôle  
commande importants pour la sûreté - Systèmes de  
surveillance des rayonnements (RMS): Caractéristiques et  
cycle de vie  
(IEC 62705:2022)

Kerntechnische Anlagen - Leittechnische Systeme mit  
sicherheitstechnischer Bedeutung -  
Strahlungsüberwachungssysteme: Eigenschaften und  
Lebenszyklus  
(IEC 62705:2022)

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European Committee for Electrotechnical Standardization  
Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**EN IEC 62705:2026 (E)****European foreword**

This document (EN IEC 62705:2026) consists of the text of document IEC 62705:2022, prepared by IEC/SC 45A "Instrumentation, control and electrical power systems of nuclear facilities" of IEC/TC 45 "Nuclear instrumentation".

The following dates are fixed:

- latest date by which this document has to be (dop) 2027-06-30 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2029-06-30 conflicting with this document have to be withdrawn

As stated in the nuclear safety directive 2009/71/EURATOM, Chapter 1, Article 2, item 2, Member States are not prevented from taking more stringent safety measures in the subject-matter covered by the Directive, in compliance with Community law.

In a similar manner, this document does not prevent Member States from taking more stringent nuclear safety and/or security measures in the subject-matter covered by this document.

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**Endorsement notice**

The text of the International Standard IEC 62705:2022 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standard indicated:

IEC 61508-1	NOTE	Approved as EN 61508-1
IEC 61508-2	NOTE	Approved as EN 61508-2
IEC 61508-3	NOTE	Approved as EN 61508-3
IEC 61508-4	NOTE	Approved as EN 61508-4
IEC 62645	NOTE	Approved as EN IEC 62645

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of 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.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cencenelec.eu](http://www.cencenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60532	-	Radiation protection instrumentation - Installed dose rate meters, warning assemblies and monitors - X and gamma radiation of energy between 50 keV and 7 MeV	-	-
IEC 60761-1	-	Equipment for continuous monitoring of radioactivity in gaseous effluents - Part 1: General requirements	EN 60761-1	-
IEC 60761-2	-	Equipment for continuous monitoring of radioactivity in gaseous effluents - Part 2: Specific requirements for radioactive aerosol monitors including transuranic aerosols	EN 60761-2	-
IEC 60761-3	-	Equipment for continuous monitoring of radioactivity in gaseous effluents - Part 3: Specific requirements for radioactive noble gas monitors	EN 60761-3	-
IEC 60761-4	-	Equipment for continuous monitoring of radioactivity in gaseous effluents - Part 4: Specific requirements for radioactive iodine monitors	EN 60761-4	-
IEC 60761-5	-	Equipment for continuous monitoring of radioactivity in gaseous effluents - Part 5: Specific requirements for tritium monitors	EN 60761-5	-
IEC 60768	-	Nuclear power plants - Instrumentation important to safety - Equipment for continuous in-line or on-line monitoring of radioactivity in process streams for normal and incident conditions	-	-
IEC/IEEE 60780-323	2016	Nuclear facilities - Electrical equipment important to safety - Qualification	EN 60780-323	2017
IEC 60861	-	Equipment for monitoring of radionuclides in liquid effluents and surface waters	EN 60861	-

## EN IEC 62705:2026 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60880	-	Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category A functions	EN 60880	-
IEC 60951-1	2022	Nuclear facilities - Instrumentation systems important to safety - Radiation monitoring for accident and post-accident conditions - Part 1: General requirements	-	-
IEC 60951-2	-	Nuclear power plants - Instrumentation important to safety - Radiation monitoring for accident and post-accident conditions - Part 2: Equipment for continuous off-line monitoring of radioactivity in gaseous effluents and ventilation air	-	-
IEC 60951-3	-	Radiation monitoring equipment for accident and post-accident conditions in nuclear power plants. Part 3: High range area gamma radiation dose rate monitoring equipment	-	-
IEC 60951-4	-	Centrales nucléaires de puissance - Matériels de surveillance des rayonnements pour les conditions accidentelles et post-accidentelles. Troisième partie: Ensembles de surveillance locale du débit de dose de rayonnement gamma à large gamme	-	-
IEC 60960	-	Functional design criteria for a safety parameter display system for nuclear power stations	-	-
IEC/IEEE 60980-344	-	Nuclear facilities - Equipment important to safety - Seismic qualification	EN IEC/IEEE 60980-344	-
IEC 60987	-	Nuclear power plants - Instrumentation and control important to safety - Hardware requirements	EN IEC 60987	-
IEC 61031	-	Nuclear facilities - Instrumentation and control systems - Design, location and application criteria for installed area gamma radiation dose rate monitoring equipment for use during normal operation and anticipated operational occurrences	EN IEC 61031	-
IEC 61226	2020	Nuclear power plants - Instrumentation, control and electrical power systems important to safety - Categorization of functions and classification of systems	EN IEC 61226	2021
IEC 61250	-	Nuclear reactors - Instrumentation and control systems important for safety - Detection of leakage in coolant systems	-	-
IEC 61504	-	Nuclear facilities - Instrumentation and control systems important to safety - Centralized systems for continuous monitoring of radiation and/or levels of radioactivity	-	-
IEC 61513	2011	Nuclear power plants - Instrumentation and control important to safety - General requirements for systems	EN 61513	2013

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61559	series	Radiation protection instrumentation in nuclear facilities - Centralized systems for continuous monitoring of radiation and/or levels of radioactivity	-	-
IEC 62003	-	Nuclear power plants - Instrumentation, control and electrical power systems - Requirements for electromagnetic compatibility testing	EN IEC 62003	-
IEC 62138	-	Nuclear power plants - Instrumentation and control systems important to safety - Software aspects for computer-based systems performing category B or C functions	EN IEC 62138	-
IEC 62302	-	Radiation protection instrumentation - Equipment for sampling and monitoring radioactive noble gases	-	-
IEC 62303	-	Radiation protection instrumentation - Equipment for monitoring airborne tritium	-	-
IEC 62566	2012	Nuclear power plants - Instrumentation and control important to safety - Development of HDL-programmed integrated circuits for systems performing category A functions	EN 62566	2014
IEC 62566-2	-	Nuclear power plants - Instrumentation and control important to safety - Development of HDL-programmed integrated circuits - Part 2: HDL-programmed integrated circuits for systems performing category B or C functions	EN IEC 62566-2	-
IEC 63147	2017	Criteria for accident monitoring instrumentation for nuclear power generating stations	-	-
ISO/IEC 17025	-	General requirements for the competence of testing and calibration laboratories	EN ISO/IEC 17025	-
ISO 2889	-	Sampling airborne radioactive materials from the stacks and ducts of nuclear facilities	-	-
ISO 4037-1	-	Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 1: Radiation characteristics and production methods	EN ISO 4037-1	-
ISO 4037-3	-	Radiological protection - X and gamma reference radiation for calibrating dosimeters and doserate meters and for determining their response as a function of photon energy - Part 3: Calibration of area and personal dosimeters and the measurement of their response as a function of energy and angle of incidence	EN ISO 4037-3	-

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Nuclear facilities – Instrumentation and control important to safety – Radiation monitoring systems (RMS): Characteristics and lifecycle**

**Installations nucléaires – Instrumentation et contrôle commande importants pour la sûreté – Systèmes de surveillance des rayonnements (RMS): Caractéristiques et cycle de vie**

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