

Centrales nucleares de potencia. Salas de control.  
Diseño (Ratificada por la Asociación Española de  
Normalización en agosto de 2019.)

UNE-EN IEC 60964:2019

Centrales nucleares de potencia. Salas de control. Diseño (Ratificada por la Asociación Española de Normalización en agosto de 2019.)

*Nuclear power plants - Control rooms - Design (Endorsed by Asociación Española de Normalización in August of 2019.)*

*Centrales nucléaires de puissance - Salles de commande - Conception (Entérinée par l'Asociación Española de Normalización en août 2019.)*

En cumplimiento del punto 11.2.5.4 de las Reglas Internas de CEN/CENELEC Parte 2, se ha otorgado el rango de documento normativo español UNE al documento normativo europeo EN IEC 60964:2019 (Fecha de disponibilidad 2019-06-28)

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Las observaciones a este documento han de dirigirse a:

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EUROPEAN STANDARD

**EN IEC 60964**

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2019

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English Version

**Nuclear power plants - Control rooms - Design  
(IEC 60964:2018)**

Centrales nucléaires de puissance - Salles de commande -  
Conception  
(IEC 60964:2018)

Kernkraftwerke - Warten - Auslegung  
(IEC 60964:2018)

This European Standard was approved by CENELEC on 2019-06-17. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.



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

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## European foreword

This document (EN IEC 60964:2019) consists of the text of IEC 60964:2018 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 implemented at national level by publication of an identical national standard or by endorsement (dop) 2020-06-17
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2022-06-17

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 European standard does not prevent Member States from taking more stringent nuclear safety and/or security measures in the subject-matter covered by this standard.

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

### Endorsement notice

The text of the International Standard IEC 60964:2018 was approved by CENELEC as a European Standard without any modification.

**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 When 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.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60671	-	Nuclear power plants - Instrumentation and control systems important to safety - Surveillance testing	EN 60671	-
IEC 60709	-	Nuclear power plants – Instrumentation and control systems important to safety – Separation	EN 60709	-
IEC/IEEE 60780-323	-	Nuclear power plants – Electrical equipment of the safety system – Qualification	EN 60780-323	-
IEC 60960	-	Functional design criteria for a safety parameter display system for nuclear power stations	-	-
IEC 60965	-	Nuclear power plants – Control rooms – Supplementary control room for reactor shutdown without access to the main control room	EN 60965	-
IEC 60980	-	Recommended practices for seismic qualification of electrical equipment of the safety system for nuclear generating stations	-	-
IEC 61225	-	Nuclear power plants - Instrumentation and control systems important to safety - Requirements for electrical supplies	-	-
IEC 61226	-	Nuclear power plants - Instrumentation and control important to safety - Classification of instrumentation and control functions	EN 61226	-
IEC 61227	-	Nuclear power plants - Control rooms - Operator controls	EN 61227	-
IEC 61513	-	Nuclear power plants - Instrumentation and control important to safety - General requirements for systems	EN 61513	-
IEC 61771	-	Nuclear power plants - Main control-room -- Verification and validation of design	-	-
IEC 61772	-	Nuclear power plants - Control rooms - Application of visual display units (VDUs)	EN 61772	-
IEC 61839	-	Nuclear power plants - Design of control rooms - Functional analysis and assignment	EN 61839	-

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IEC 62003	-	Nuclear power plants - Instrumentation and control important to safety - Requirements for electromagnetic compatibility testing	-	-
IEC 62241	-	Nuclear power plants - Main control room - Alarm functions and presentation	EN 62241	-
IEC 62645	-	Nuclear power plants – Instrumentation and control systems – Requirements for security programmes for computer-based systems	-	-
IEC 62646	-	Nuclear power plants – Control rooms – Computer based procedures	-	-
IEC 62859	-	Nuclear power plants – Instrumentation and control systems – Requirements for coordinating safety and cybersecurity	-	-
ISO 11064 series		Ergonomic design of control centres -	EN ISO 11064	series
IAEA NS-G-1.9	-	Design of the reactor coolant system and associated systems in nuclear power plants		-
IAEA NS-G-1.11	-	Protection against internal hazards other than fires and explosions in the design of nuclear power plants		-
IAEA NP-T-3.16	-	Accident Monitoring Systems for Nuclear Power Plants		-