



IAEA

تسخير الذرة من أجل السلام والتنمية

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

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تهدي أمانة الوكالة الدولية للطاقة الذرية (الوكالة) أطيب تحياتها إلى الدول الأعضاء في الوكالة، ويشرفها استرعاء انتباهها إلى مسودة معايير الأمان التالية:

**جوانب الوقاية من الإشعاعات في تصميم محطات القوى النووية
(المسودة DS524)**

وتتيح هذه المذكرة للدول الأعضاء وخبرائها فرصة استعراض وتقييم مسودة معايير الأمان المشار إليها، وهي متاحة على الموقع الشبكي التالي:

<https://www.iaea.org/resources/safety-standards/draft-standards-for-ms-comment>

وستُرسل نسخة مطبوعة من مسودة النص بناءً على الطلب.

وعند وضع الصيغة النهائية لوثيقة معايير الأمان، سوف تُؤخذ في الاعتبار أيُّ تغييرات يُقترح إدخالها على مسودة النص نتيجة استعراض الدول الأعضاء لها.

ويُرجى من الدول الأعضاء أن تقدّم تعليقاتها على مسودة النص وفقاً للإرشادات الواردة في المذكرة الإيضاحية المرفقة.

وتغتنم أمانة الوكالة الدولية للطاقة الذرية هذه الفرصة لتُعرب للدول الأعضاء في الوكالة عن أسى آيات تقديرها.



2022-6-28

المرفقات (باللغة الإنكليزية فقط):

(مذكرة إيضاحية) Explanatory Note

(استمارة إبداء التعليقات) Form for Comments

(بيان صادر عن لجنة معايير الأمان) Statement by the Commission on Safety Standards

Explanatory Note

Radiation Protection Aspects of Design for Nuclear Power Plants (DS524)

The draft text for review, entitled ***Radiation Protection Aspects of Design for Nuclear Power Plants***, was prepared as a Safety Guide to be issued in the IAEA Safety Standards Series.

The draft text has already been reviewed through consultants' meetings, as well as by the Emergency Preparedness and Response Standards Committee (EPReSC), the Nuclear Safety Standards Committee (NUSSC), the Radiation Safety Standards Committee (RASSC), the Waste Safety Standards Committee (WASSC), and also by the Nuclear Security Guidance Committee (NSGC).

The objective of this draft text, as accepted by the Commission on Safety Standards (CSS), is to provide recommendations for ensuring radiation protection in (1) the design of new nuclear power plants, (2) design modifications to operating plants, and (3) safety reviews and assessments of operating plants (for example as part of the comprehensive evaluation of safety or the periodic safety review of the plant). The recommendations are provided to assist in meeting the applicable safety requirements, in particular those established in SSR-2/1 (Rev. 1), under the fundamental safety objective, that is "to protect the people and the environment from harmful effects of ionizing radiation", by establishing and maintaining in nuclear installations effective defences against radiological hazards. This Safety Guide is for use by organizations responsible of designing, manufacturing and constructing nuclear power plants, by operating organizations and contractors' organizations, including plant operators who are involved in planning, managing and carrying out the design and design modification of nuclear power plants, and by regulatory bodies and technical support organizations. This Safety Guide includes recommendations on radiation protection of design for nuclear power plants that have interface with other IAEA safety guides; in those cases, references to those safety guides are indicated, to help facilitate consistent implementation of the recommendations provided in different safety standards about radiation protection of workers, the public and the environment. This Safety Guide will supersede the recommendations provided on this topic in the previous version, Radiation Protection Aspects of Design for Nuclear Power Plants, IAEA Safety Standards Series No. NS-G-1.13, Vienna, 2005.

Comments are requested in relation to:

- Relevance and usefulness: Are the stated objectives appropriate, and are they met by the draft text?
- Scope and completeness: Is the scope appropriate, and is it adequately covered by the draft text?
- Quality and clarity: Does the guidance in the draft text represent the current consensus among specialists in the field, and is this guidance expressed clearly and coherently?
- Safety–security interfaces: Does the draft text appropriately address the interfaces between safety and nuclear security?

Comments of an editorial nature will be considered; however, it should be noted that the draft text will be comprehensively edited by the IAEA Secretariat.

Any comments should be made in English, should refer to the relevant paragraph number in the draft text being reviewed, and should propose alternative text where appropriate. Please use the attached Form for Comments to record all comments.

The responsible IAEA officer is Mr Palmiro Villalibre Ares of the Department of Nuclear Safety and Security, who may be contacted for further information in connection with this subject by telephone at: +43 1 2600 22931 or via email at: P.Villalibre@iaea.org.

Any comments should be sent through the established official channels to the responsible IAEA officer by **28 October 2022**.

Form for Comments
Radiation Protection Aspects of Design for Nuclear Power Plants (DS524)

COMMENTS BY REVIEWER				RESOLUTION			
Reviewer: Country/Organization:		Page.... of.... Date:					
Comment No.	Para/Line No.	Proposed new text	Reason	Accepted	Accepted, but modified as follows	Rejected	Reason for modification/rejection

Statement by the Commission on Safety Standards

Publications in the IAEA Safety Standards Series are prepared and reviewed in accordance with a uniform process. To this end, the Commission on Safety Standards (CSS) and five committees with harmonized terms of reference — the Emergency Preparedness and Response Standards Committee (EPRaSC), the Nuclear Safety Standards Committee (NUSSC), the Radiation Safety Standards Committee (RASSC), the Transport Safety Standards Committee (TRANSSC) and the Waste Safety Standards Committee (WASSC) — have been established. The CSS has a special overview role with regard to the IAEA's safety standards and provides advice to the Director General on the IAEA's overall programme with regard to regulatory aspects of safety.

The uniform preparation and review process involves organizing expert group meetings; arranging at different stages of preparation for the internal review of draft texts; submitting the texts to the relevant Committee(s) for review; submitting draft texts to the IAEA's Member States for comment; and submitting the approved final draft of the safety standard¹ for endorsement by the CSS before publication.

The CSS stresses the importance of Member States' comments to the preparation and review process for safety standards. Publications in the IAEA Safety Standards Series not only should be of the requisite quality but also should represent the consensus view of the Member States and should address the issues of importance to the Member States. While the CSS, the Committees and the Secretariat strive to provide safety standards that satisfy these criteria, the review of draft standards by experts in the Member States is an essential stage in obtaining the broadest possible technical consensus and the highest possible quality and relevance.

Member States are also encouraged to provide the IAEA with feedback on their use of the safety standards. The status of safety standards extant and in preparation can be seen on the IAEA's website, where there are also links to electronic files for existing publications, including those in other official languages.² The responsible IAEA officer is Mr Dominique Delattre, Head of the Safety and Security Publications Unit of the Department of Nuclear Safety and Security. He may be contacted for further information in connection with this subject by telephone at: + 43 1 2600 22696 or via email at: D.Delattre@iaea.org.

¹ Safety Guides are published under the authority of the Director General. Safety Fundamentals and Safety Requirements publications require the approval of the Board of Governors, after endorsement by the CSS.

² See <http://www-ns.iaea.org/committees/files/CSS/205/status.pdf>.