



*Atoms for Peace and Development*

الوكالة الدولية للطاقة الذرية

国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

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The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the following closely interrelated draft safety standards:

***Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report  
(revision of SSG-20)  
and  
Safety in the Utilization and Modification of Research Reactors  
(revision of SSG-24)  
(DS510)***

Member States and their experts are hereby provided with an opportunity to review and evaluate these draft safety standards, which are available online at:

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

A hard copy of the draft texts will be sent out upon request.

Any proposed changes to these draft texts resulting from the review by Member States will be taken into account in the finalization of the safety standards.

Member States are kindly requested to provide comments on the draft texts following the guidance given in the attached Explanatory Note.

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to assure the IAEA's Member States of its highest consideration.



2019-07-16

Enclosures:

Explanatory Note

Form for Comments

Statement by the Commission on Safety Standards



## Explanatory Note

### ***Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report (revision of SSG-20)***

**and**

### ***Safety in the Utilization and Modification of Research Reactors (revision of SSG-24)***

**(DS510)**

The draft texts for review, entitled ***Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report (revision of SSG-20) and Safety in the Utilization and Modification of Research Reactors (revision of SSG-24)*** were prepared as draft Safety Guides 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 (EPRaSC), the Nuclear Safety Standards Committee (NUSSC), the Radiation Safety Standards Committee (RASSC), the Transport Safety Standards Committee (TRANSSC), the Waste Safety Standards Committee (WASSC), and also by the Nuclear Security Guidance Committee (NSGC).

The objective of these draft texts, as accepted by the Commission on Safety Standards (CSS), is to take into consideration:

- Revisions made to safety requirements in IAEA Safety Standards Series No. SSR-3 since the publication of the original Guides;
- Feedback from users of the IAEA safety standards related to research reactors;
- Use of these Guides for subcritical assemblies;
- Lessons from the accident at the Fukushima Daiichi nuclear power plant and other events in the nuclear industry, including those occurring at research reactors that were reported to the Incident Reporting System for Research Reactors; and
- Experience gained from the Integrated Safety Assessment of Research Reactors missions.

Comments are requested in relation to:

- Relevance and usefulness: Are the stated objectives appropriate, and are they met by the draft texts?
- Scope and completeness: Is the scope appropriate, and is it adequately covered by the draft texts?
- Quality and clarity: Does the guidance in the draft texts 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?
- Are the requirements established in IAEA Safety Standards Series No. SSR-3 adequately addressed in each draft text?
- Are the following specific issues adequately addressed in these draft Safety Guides?

- Guidance on safety analysis report and safety in the utilization and modification for subcritical assemblies;
- Guidance for development of acceptance criteria and performance of safety analysis for design extension conditions;
- Guidance on “Planning for decommissioning” replaced guidance on “decommissioning”; and
- Consideration of organizational changes to the operating organization as a modification.

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 Ms Farhana Naseer 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 22017 or via email at: [F.Naseer@iaea.org](mailto:F.Naseer@iaea.org).

Any comments should be sent through the established official channels to the responsible IAEA officer by **22 November 2019**.

**Form for Comments**  
*Safety Assessment for Research Reactors and Preparation of the Safety Analysis Report (revision of SSG-20 (DS510A))*

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

***Safety in the Utilization and Modification of Research Reactors (revision of SSG-24)***  
**(DS510B)**

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 standard<sup>1</sup> 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.<sup>2</sup> 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](mailto:D.Delattre@iaea.org).

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<sup>1</sup> 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.

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