



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 draft safety standard:

***Revision of seven closely interrelated Safety Guides on the Operation of Nuclear Power Plants:
NS-G-2.2 to 2.6, NS-G-2.8 and NS-G-2.14
(DS497)***

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

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

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

Any proposed changes to this draft text resulting from the review by Member States will be taken into account in the finalization of the safety standard.

Member States are kindly requested to provide comments on the draft text 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.



17 January 2019

Enclosures: Explanatory Note

Form for Comments

Statement by the Commission on Safety Standards

Explanatory Note

Revision of seven closely interrelated Safety Guides: NS-G-2.2 to 2.6, NS-G-2.8 and NS-G-2.14¹
(DS497)

The draft texts for review, entitled:

- A. Operational Limits and Conditions and Operating Procedures for Nuclear Power Plants (revision of NS-G-2.2);*
- B. Modifications to Nuclear Power Plants (revision of NS-G-2.3);*
- C. The Operating Organization for Nuclear Power Plants (revision of NS-G-2.4);*
- D. Core Management and Fuel Handling for Nuclear Power Plants (revision of NS-G-2.5);*
- E. Maintenance, Surveillance and In-service Inspection in Nuclear Power Plants (revision of NS-G-2.6);*
- F. Recruitment, Qualification and Training of Personnel for Nuclear Power Plants (revision of NS-G-2.8); and*
- G. Conduct of Operations at Nuclear Power Plants (revision of NS-G-2.14),*

were prepared as draft Safety Guides to be issued in the IAEA Safety Standards Series.

The draft texts have 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 these draft texts, as accepted by the Commission on Safety Standards (CSS), is to amend this set of guides to take into consideration:

- Revisions to other safety standards, in particular IAEA Safety Standards Series No. SSR-2/2 (Rev. 1);
- Lessons learned from the Fukushima Daiichi accident and other events in the nuclear industry;
- Feedback from the users of the safety standards;
- Experience gained from Operational Safety Review Team (OSART) missions and the 2015 revision of the IAEA OSART Guidelines and Working Notes Outlines;
- Recent changes in operational practices in nuclear power plants; and
- Potential use of these publications for new types of reactor technology (e.g. small and medium sized or modular reactors (SMRs) and non-water cooled reactors).

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?

¹ DS497 includes a proposal for the revision of eight Safety Guides. However, following the approval of this document preparation profile, the Nuclear Safety Standards Committee, at its 43rd meeting, decided to exclude the revision of NS-G-2.7 from the scope of DS497 on the basis that the guidance in NS-G-2.7 has recently been updated and issued as GSG-7 and SSG-40.

- 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: Do the draft texts appropriately address the interfaces between safety and nuclear security?
- Are the requirements established in IAEA Safety Standards Series No. SSR-2/2 (Rev. 1) adequately addressed in each draft text?
- Are the following specific issues adequately and consistently addressed in all seven draft Safety Guides?
 - Risk-informed approaches to support the operational safety of nuclear power plants, including under shutdown conditions;
 - Specific safety considerations for multi-unit nuclear power plants;
 - Safety for outages, including risk management;
 - Cross-cutting issues related to the implementation of defence in depth, a systemic approach to safety, safety culture, influence of human and organizational factors, use of probabilistic safety analyses, records and reports, and quality assurance;
 - Organizational changes, outsourcing and downsizing aspects; and
 - Load following regimes and other new operational practices.

Comments of an editorial nature will be considered; however, it should be noted that the draft texts 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 Ronan Cavellec 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 26179 or via email at: R.Cavellec@iaea.org.

Any comments should be sent through the established official channels to the responsible IAEA officer by **31 May 2019**.

Form for Comments

Revision of 7 closely interrelated Safety Guides: NS-G-2.2 to 2.6, NS-G-2.8 and NS-G-2.14 (DS497)

Operational Limits and Conditions and Operating Procedures for Nuclear Power Plants (revision of NS-G-2.2): DS497a

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 (EPreSC), 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 standard² 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.³ 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.

² 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.

³ See <http://www-ns.iaea.org/committees/files/CSS/205/status.pdf>.