Nuclear Safety Standards Committee
47th Meeting [25 – 27 June 2019]
Agenda Item 2.2

Draft Safety Guide DS510A and DS510B:
Safety Assessment for Research Reactors and Preparation of
the Safety Analysis Report (Revision of SSG-20)
Safety in the Utilization and Modification of Research Reactors
(Revision of SSG-24)

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Background

- DS510 is a revision (by amendment) of SSG-20 (published in 2012) and SSG-24 (published in 2012).

- SSG-20 and SSG-24 revised to:
  - address new safety requirements after publication of SSR-3
  - ensure coherency and consistency with other relevant IAEA Safety Standards
  - incorporate experience from use of these documents and feedback from Fukushima accident.
Overview of the Document

• The scope of the drafts expanded to cover subcritical assemblies
• The structure remains essentially the same; for SSG-24, a section on “organizational changes” added.

• For both drafts, the main revisions were:
  – Guidance added on:
    • Subcritical assemblies;
    • Design Extension Conditions;
    • Interface between nuclear safety and security.
  – “Preparation for decommissioning” replaced decommissioning.
  – References/cross-links updated.
Status of the Document

• The DPP approved by committees in 2017/2018 and by CSS (April, 2018).

• First drafts developed in Consultancy Meetings (April – November, 2018).

• Revised drafts were subjected to QA review within NSNI and NS; approved by Coordination Committee (March 2019).

• Revised drafts submitted to committees for review (April 2019).

• Approved by WASSC for Member States comments, June 2019.
Committees Comments and Resolutions-DS510

- DS510A (SSG-20):
  - 212 comments from all committees – 12 members (Australia, Canada, Finland, France, Germany, Iran, Japan, Korea, Pakistan, UK, USA, and Vietnam).
  - 172 comments from 9 NUSSC Members.

- DS510B (SSG-24):
  - 125 comments from all committees – 11 members (Australia, Canada, Finland, France, Germany, Iran, Japan, Korea, Pakistan, UK and USA).
  - 84 comments from 9 NUSSC Members.
Committees Comments and Resolutions-DS510

- Most comments accepted as proposed or with modification – incorporation of the comments improved the quality of the drafts.

- The comments were mainly for clarification, consistent use of terminologies, additional link to safety requirements and improve guidance to some areas.

- Rejected comments were mainly to avoid inconsistency with Glossary and IAEA Safety Standards and to ensure technical precision of the text.

There are no unresolved comments
Action Requested

Approval to submit to Member States for comments
Thank you!