Waste Safety Standards Committee

37th Meeting

23-27 June 2014

Agenda Item W 9.2
DPP DS485 Ageing Management and LTO

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Background

- The previous guide published in 2009
- Connected safety standards were revised since this time (SSR 2/1, SSR2/2, SSG-25)
- SSR2/2, Req. 16 on Long Term Operation not supported by SG
- New supporting SRS IGALL published
- Proven practices in Long Term Operation (LTO) preparation from Member States should be incorporated
General objective of SG revision

- Fulfil task arising from "Long term structure of the IAEA Safety Standards" – a new safety guide "...will also address the issues related to long term operation ..."
- Provide comprehensive guidance on recommended ways of fulfillment of SSR-2/2 Requirement 14: Ageing management and Requirement 16: Programme for long term operation
- Update obsolete sections
- Assure consistency of terminology
Specific objectives of SG revision

Update obsolete, insufficient or missing sections and incorporate a current state-of-the-art of industry practices and research and development results:

- Scope setting and screening for ageing management and LTO;
- Ageing management review;
- Review of ageing management programmes;
- Management of obsolescence;
- Relevant plant documentation and programmes to AM and LTO;
- Programme for long term operation;
- Time limited ageing analysis.
Specific objectives of SG revision

Fulfil also the following tasks:

- Assure the consistency of terminology (LTO, S&S, AMR, review of AMPs, TLAA etc.) with SSR-2/2 and a new IGALL Safety Report;
- Provide definitions and comprehensive guidance for physical ageing, conceptual obsolescence and technological obsolescence.
Status of Safety Guideline Revision

- Approval of DPP by WASSC and NUSSC July 2014

- Approval of DPP by CSS October 2014
- Preparation of Draft February 2015
- Approval of Draft by the SSCs for submission to Member States for comments June 2015
- Approval by SSCs for submission to CSS June 2016
- Endorsement by CSS October 2016
- Target publication date March 2017
Comments Received

The following members have responded to the DPP:

- Argentina
- ENISS
- Finland
- France
- Germany
- Korea
- Sweden
- Ukraine
- USA
Nature of the comments

- Completeness
- Clarity
- Scope of the document
- Better order of sections
- Relations with other Safety Standards
- General
- Typo
## Comments Received (NUSSC/WASSC)

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<th>Country/Organization</th>
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Comments

• Most of comments are accepted (~84 %)
• Rejected comments (France – 5, USA – 1) will be discussed later
Rejected comments - France

Comment No. 1:
Safety Guide title – „Ageing management and long term operation for NPP“ - Ageing management is only one part of LTO. It is preferred to separate LTO. Keep current scope of NS-G-2.12. As expressed in the DPP, LTO has a strong link with PSR (SSG-25) which addresses aspects of LTO. From a regulator point of view, the Safety Guide on licensing nuclear installation would be a more appropriate place to address this topic.
Comment No. 1:

Safety Guide title – „Ageing management and long term operation for NPP“ - ageing management is only one part of LTO. It is preferred to separate LTO. Keep current scope of NS-G-2.12. As expressed in the DPP, LTO has a strong link with PSR (SSG-25) which addresses aspects of LTO. From a regulator point of view, the Safety Guide on licensing nuclear installation would be a more appropriate place to address this topic.

Reason: New Safety Guide should address mainly SSR-2/2 “Requirement 14: Ageing management” and “Requirement 16: Programme for long term operation” to support NPPs in their preparation for LTO, so the title was changed accordingly.

Note - SSG-25, para 3.3 - The intent of this Safety Guide is not to provide recommendations for the activities performed during long term operation of a nuclear power plant. However, a PSR and its findings can be used to support the decision making process for long term operation or licence renewal.
Rejected comments - France

Comments No. 7, 8, 12, 13:
Proposals to delete sections on “Plant activities relevant to ageing management and LTO” and “Programme for long term operation” (each proposal repeated twice). Keep current NS-G-2.12 scope.
Rejected comments - France

Comments No. 7, 8, 12, 13:

Proposals to delete sections on “Plant activities relevant to ageing management and LTO” and “Programme for long term operation” (each proposal repeated twice). Keep current NS-G-2.12 scope.

Reason: One of the main reasons of NS-G-2.12 revision is addressing of a new SSR-2/2 Requirement 16: Programme for long term operation, which is not reflected in any safety guide.

Also „Long term structure of the IAEA Safety Standards“ requires that a new revision of NS-G-2.12 „…will also address the issues related to long term operation ...“
Rejected comments - USA

Comment No. 3:
We recommend adding a Special Section in the Table of content on “instrumentation, control, and operational software aging management.”
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We recommend adding a Special Section in the Table of content on “instrumentation, control, and operational software aging management.”

Reason: Specific issues connected with ageing management of software will be covered by a new SG DS-431 on Design of I&C (currently in preparation). New NS-G-2.12 will describe AM of all safety SSCs in one section. We will put reference to DS-431.
Thank you for your attention!
Questions?
Approval for submission to Commission for Safety Standards