DPP DS514 - Draft Safety Guide: Qualification of Items Important to Safety in Nuclear Installations

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Qualification of items important to safety

- This is a new safety guide
- This safety guide was initiated to
  - Provide recommendations on qualification of items important to safety for nuclear installations to meet specific safety requirements in SSR 2/1, 2/2, SSR-3, SSR-4 and GSR Part 4
  - Collecting the existing guidance together with additional new recommendations into one, up to date IAEA publication to make certain that all combined qualification activities are addressed
  - Ensure coherency and consistency with the other relevant IAEA Safety Standards e.g. SSG-25 (PSR), SSG-30 (Classification), SSG-34 (Design of electrical systems), SSG-39 (Design of I&C systems), DS485 (Ageing management and LTO)
Overview of the Document

• **The new information in DS514 provide for**
  – A structured approach and guidance on the development, implementation, continual maintenance and assessment of the effectiveness of the equipment qualification
  – The equipment qualification process of items important to safety for all plant states

• **The new information in DS514 supports**
  – The IAEA’s technical safety review services (e.g. periodic safety reviews in accordance with SSG-25, Safety Factor 3: Equipment Qualification), as well as OSART and SALTO
  – The interface with DS449 – on Format and Content of the SAR for NPPs
  – The interface with DS490 – on Seismic design and qualification for NPPs
  – The interface with DS485 – on Ageing management and LTO
Overview of the Scope

• **Equipment in scope**
  
  – Electrical, instrumentation and controls, electromechanical, active mechanical equipment
  
  – Installation features associated with this equipment (e.g. connectors, penetrations, seals, mounting equipment)
  
  – Materials of construction which could affect the performance of this equipment including containment wall paint and piping insulation

• **Equipment out of scope**
  
  – Piping, structures and other passive components because their qualification (safety status) is achieved directly by design, construction, inspection and testing according to applicable codes
## Status of the Document

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NUSSC Member Comments: Summary

• Forty five (45) comments from ENISS, France, Germany, Japan, Korea, Pakistan, UK, USA
  – 80% accepted
  – Comments improved a DPP to better describe the scope, qualification concept and methods and table of contents in greater details

• All comments were addressed and resolutions were provided to NUSSC members

There are no unresolved comments
Requested Action

Approval by NUSSC for submission to CSS
Thank you!