

EXECUTIVE SUMMARY

At the invitation of OKG company in Sweden, the IAEA conducted a SALTO (Safety Aspects of Long Term Operation) mission at Unit 3 of the Oskarshamn Nuclear Power Plant (NPP) (further referred to as 'the plant') from 1 to 10 October 2024.

The SALTO mission reviewed the status of activities related to long term operation (LTO) assessment of the plant against IAEA Safety Standards and international best practices. The review team consisted of two IAEA staff members (team leader and deputy team leader), six international experts and three observers from Argentina, Belgium, Brazil, Hungary, the Netherlands, Pakistan, Spain, and the USA. The review covered the standard scope of a SALTO mission.

The team reviewed the completed, in-progress and planned activities related to LTO, including ageing management of the structures, systems, and components (SSCs) important to safety and revalidation of time limited ageing analyses (TLAAs). Through the review of available documents, presentations, and discussions with counterparts and other members of the plant staff, the IAEA team observed in the field of ageing management and preparedness for safe LTO that many of the ageing management and LTO activities are already in alignment with IAEA Safety Standards, while some activities are still in progress.

The team found the plant staff to be professional, open and receptive to proposals for improvement. The mission team observed that plant management is committed to improving plant preparedness for LTO. In addition, the team noted several good performances. The following are the most important:

- The reconstitution of design documentation in cooperation with the original equipment manufacturer (OEM) and accessibility to their archives for the period of long term operation.
- Development of a user-friendly database that shows each user their assigned maintenance activities.
- Regular meetings of experts from different plant departments to share experience, including international experience, and to discuss improvements to the plant LTO process.

The team recognized that the plant's intention is to consider the IAEA Safety Standards in preparation for safe LTO. The team identified 12 areas for further improvement, the most significant ones that the plant should consider are:

- Establishing a comprehensive Periodic Safety Review or alternative arrangement justifying the safe extension of the operating life beyond the original design life;
- Establishing a comprehensive programme for safe LTO;
- Ensuring a comprehensive scoping process.

A summary of the review was presented to the plant management and the regulatory body representative during the exit meeting held on 10 October 2024. The plant management expressed a determination to address the areas identified for improvement and confirmed the intention to invite a SALTO Follow-up Mission to Oskarshamn Nuclear Power Plant Unit 3 to be conducted in 2026.