



PREDIS

WEBINAR WP7 – 19th of January 2021

Package-Facility monitoring - End User perspective

Angelo Paratore - SOGIN



This project has received funding from the Euratom research and training programme 2014-2018 under grant agreement No 945098.

Sogin is the Italian State owned WMO dealing with the decommissioning and WM of four NPPs, four Fuel Cycle Facilities and one Research Reactor; Sogin is involved as well as Partner/End User in PREDIS WP2, WP5 and WP7.

Like in the case of many other WMOs in Europe, the volume of our RW already stored in temporary storage facilities at the installation sites will increase in the coming years as long as the decommissioning activities will progress. Eventually such waste will be transported to the National Repository to be disposed of (VLLW and LLW) or long-term stored (ILW and HLW) in the centralized storage facility to be realized in Italy on the same site, pending the availability of geologic disposal.

In the past, we have been experiencing a few cases of degradation phenomena of our waste packages in store, mainly connected to inner corrosion and through corrosion of the containers which required prompt intervention and remedial actions like decontamination and repackaging.

According to our experience, such degradation phenomena could have been foreseen or at least early detected with advanced monitoring systems in place, other than the normal periodic visual inspections currently performed. We are also aware about recent initiatives launched by European Regulators' associations for evaluating the issues related to the extended storage time of waste and the possible release of recommendations aimed at reinforcing the monitoring approaches.

That's why we do believe that R&D activities on monitoring techniques and practices for tracking and preventing degradation phenomena connected to extended storage time are of fundamental importance for WMOs and other End Users managing storage facilities.