

EURAD2 AM2: EUG VIEW OF WP8 SAREC

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END-USERS GROUP VIEW OF WP8 SAREC IN SEPTEMBER 2026

- The work led by WP SAREC is clearly of scientific interest for all partners involved, as it covers a wide range of fuel types (UOx, MOX, and ATF), including doped fuels, of interest on European level. WP SAREC also highlights the influence of environment, with leaching experiments in various conditions (carbonated and cementitious solutions, e.g.)
- It is encouraging to see the progress achieved within SAREC on topics relevant to spent fuel under disposal conditions. The performed work demonstrates a strong commitment from the participating organizations, although the maturity of the individual activities might vary across the consortium
- The radionuclide release from spent fuel alteration in repository conditions will always remain a topic of interest for European programs on geological disposal
- The experimental programme is well designed, including leaching tests with fuels of different types, burnups and fission gas release levels.

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- WP SAREC contributes to completing our knowledge and our understanding of the specific processes governing matrix dissolution in different conditions, providing valuable data for improving spent fuel source term models, the understanding of fuel behaviour and supporting the validation/updating of the models used for post-closure safety assessment
- The completion of the spent nuclear fuel dissolution database will facilitate scientific collaboration and enhance accessibility to valuable data for the nuclear fuel research community