

SEvere Accident research and KNOwledge managemenT for LWRs

SEAKNOT

无天	OBJECTIVE: Management, Exploitation and Assessment of Severe Accident Knowledge			
	 In order to achieve this objective, specific go □ Carry out a critical analysis of the current k □ Make recommendations for further redu 	nowledge on Severe		g and forthcomin
	nuclear technologies (SMLWRs & ATFs) ☐ Identify experimental research needs required to support & optimize SA mitigation measures ☐ Strengthen the young generation background and skills through an efficient plan to achi Knowledge and Know-how Transfer from senior scientists and engineers			
	Major Outcomes	SA	SOAR	Expertise
	☐ Roadmap for the SA research over the next decade	Database BECKER TECHNOLOGIES	Ciemat	
	☐ SA Phenomena Identification Ranking Table (PIRT)		In-Vessel	UNIVERSITÀ DI PISA
	☐ Validation Database Directory ☐ Experimental infrastructure network		Containment ————Pr	Mobility SAP rogramme ERMSAR Textbook
	☐ Strengthening of the young workforce (Textbook, SAP Course, ERMSAR, etc.)	Cez	Source Term	
	☐ Mobility grants for young researchers	Infrastructure	Ranking	SA Young Workforce
X	EXPECTED IMPACTS	R	esearch Roadmap	
	 □ Enhance NPP safety outlining the most efficient path for investigation to be conducted □ Maintain and further expand EC expertise in SA domain □ Strengthen abilities and skills of the workforce responsible for conducting SA research □ Reinforce education & training activities on SA 			
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XX	HIGHTIGHTS			
	☐ Strong benefit from previous EU and non-EU research ☐ Collaboration with NEA/CSNI and IAEA related Working Groups, strong link with Nea/CSNI and IAEA relat			
	SA research needs reset based on what s ki	nown, what's unknow	wn and what's sat	ety significant

PARTNERS

CIEMAT, IRSN, KIT, JSI, UPM, FZJ, UJV, TRACTEBEL, FRAMATOME, KTH, VTT, ENEA, CEA, UNIPI, BT, LGI, PSI

DURATION & BUDGET

October 2022 to September 2026 Budget €2,726,993.75

CONTACTS

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Severe Accident Phenomenology (SAP) Course

two editions planned in June 2023 (UPM Madrid) and 2025 (FZJ Julich)

European Review Meeting on Severe Accident Research (ERMSAR Conference)

two editions planned in May 2024 (KTH Stockholm) and 2026 (CIEMAT Madrid)

