

D5.9. Synthesis report on C/E validation and nuclear data trends

Linked to WP5/T5.2 – Validation studies (using existing experiments)

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Proposed content for D5.9



- A large suite of integral experiments considered for JEFF validation:
 - Reactor physics experiments (IRPhE + PWR databases + SEFOR) D5.7
 - Shielding benchmarks (SINBAD)
 - Criticality-safety benchmarks (ICSBEP) D5.8
- The predictive capability of an evaluation can be accurate enough within a specific application domain, but not within another, while the same data is intended to support all applications



- **Objective of the deliverable:**
 - Synthesize the findings from D5.7 and D5.8 and discuss identified needs in the various domains to draw unambiguous conclusions about ND status in JEFF
 - Identify gaps in the validation domain and the correlations in integral experiments that need to be established based on conclusions drawn from D5.6
 - Present other relevant experimental data to be included in the validation domain for a robust validation process:
 - Spent fuel casks
 - Other



- 1. Introduction**
- 2. Considerations for a robust validation process**
- 3. Synthesis of C/E validation and nuclear data trends**
- 4. Gaps in the validation domain and necessary correlations in integral experiments**
- 5. Additional experimental benchmarks to be included into the V&V scheme**
- 6. Concluding remarks**
- 7. References**

Deliverable D5.9 – Status summary



- ✓ Estimated date to send a 1st draft to contributors: June 2024
- ✓ Estimated date for completion: July 2024