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# Nuclear data uncertainty quantification on PWR spent nuclear fuel as a function of burnup

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Nuclear data uncertainty analysis on the spent nuclear fuel inventory was performed on the Takahama-3 NT3G23 assembly, where the sample SF95-4 was irradiated up to a burnup of approximately  $36 \text{ GWd/t}$  according to the SFCOMPO benchmark. The cross-section covariance matrices stored in the ENDF/B-VIII.0, JEFF-3.3 and JENDL-4.0u evaluated nuclear data libraries were propagated with the stochastic sampling algorithms implemented in the SANDY code. A comparison of the concentration uncertainty differences obtained using data from the three libraries is reported. Similarities were found with the fuel composition uncertainty results obtained for the Calvert Cliffs MKP109 sample P SFCOMPO benchmark. Such a similarity was also found when comparing concentration uncertainties along the sample irradiation. Therefore, the main contributors to the concentration uncertainty of a number of nuclides were identified at different burnup levels in the two samples. To complement the similarity analysis, a correlation study of the concentration distributions predicted by the two models was performed. The reported results hint a dominance of the common uncertainty propagation mechanisms over the model differences in the determination of concentration uncertainty.

## KEYWORDS

burnup, spent nuclear fuel, nuclide inventory, uncertainty analysis, nuclear data, SANDY, model comparison

## 1 Introduction

Spent nuclear fuel (SNF) characterization is of key importance for many research and technological applications of the back end of the fuel cycle. Several observables (Zverevnik *et al.*, 2018) have been identified to be of interest for SNF applications. This is because many nuclides present in the fuel at discharge pose risks and technological issues due to their decay. The relevance of the contribution of different nuclides to these observables varies in time because of their different half-lives.

Experimental assessment of SNF observables is often expensive and time-consuming (Hao and Liljenfeldt, 2017), so numerical computer codes are a key tool in this field. SNF observables and SNF nuclide concentration are tightly linked; this means that all the observables can be computed from the nuclide inventory (Zverevnik *et al.*, 2018). The SNF nuclide concentration is often predicted using computer codes for burnup analysis, which couple the solution of neutron transport and of the Bateman equation. Validation

# Plan Of Action To Resolve Spent Nuclear Fuel Vulnerabilities Phase Iii

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