












D. Rochman

Subgroup on decay heat benchmark (proposal)

WPNCS Meeting, February 2nd, 2024, OECD NEA Paris,
online

Follow-up of the SG12

- During the SG12, the definition of a “Decay heat computational benchmark” was defined
 - Last version of June 29, 2023.
 - Many feedback/discussions within the SG12
 - Some participants already performed preliminary calculations

Literature	
 Name 	Modified 
 Paper for ICNC2023 conference	November 25, 2022
 Paper for the EPJ N journal	August 30, 2023
 Proposal for a follow up computational benchmark	November 14, 2022
 STDSNF_DH code	November 14, 2022
 letter_of_support_KKG_calorimeter.pdf	June 5, 2023
 WPNCs_APS-DH_benchmark.docx	December 8, 2022



Decay heat computational benchmark: definition for a PWR UO₂ assembly and pincell

WPNC5 SG12

D. Rochman¹

¹Reactor Physics and Thermal hydraulic Laboratory, PSI, Switzerland

Version 0.4

June 29th, 2023

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- The Activity Proposal Sheet (APS) was sent in November 2023
- Justification:
 - estimation of decay heat,
 - biases, user/code/library effects,
 - Impact of input parameters (e.g. burnup)

- Plan:

Milestones vs. time	<p>T0: Accepted proposal and establishment of Subgroup T1: T0 + 3 months: benchmark specifications T2: T0 + 9 months: calculations performed T3: T0 +1.5 years: results analyzed T4: T0 + 2 years: Report/publication of the results</p>
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- Results: benchmark description and analysis of results
- Preliminary list of >20 participants

Wir schaffen Wissen – heute für morgen

