



D. Rochman

Update on the proposal for a new subgroup on Spent Nuclear Fuel decay heat

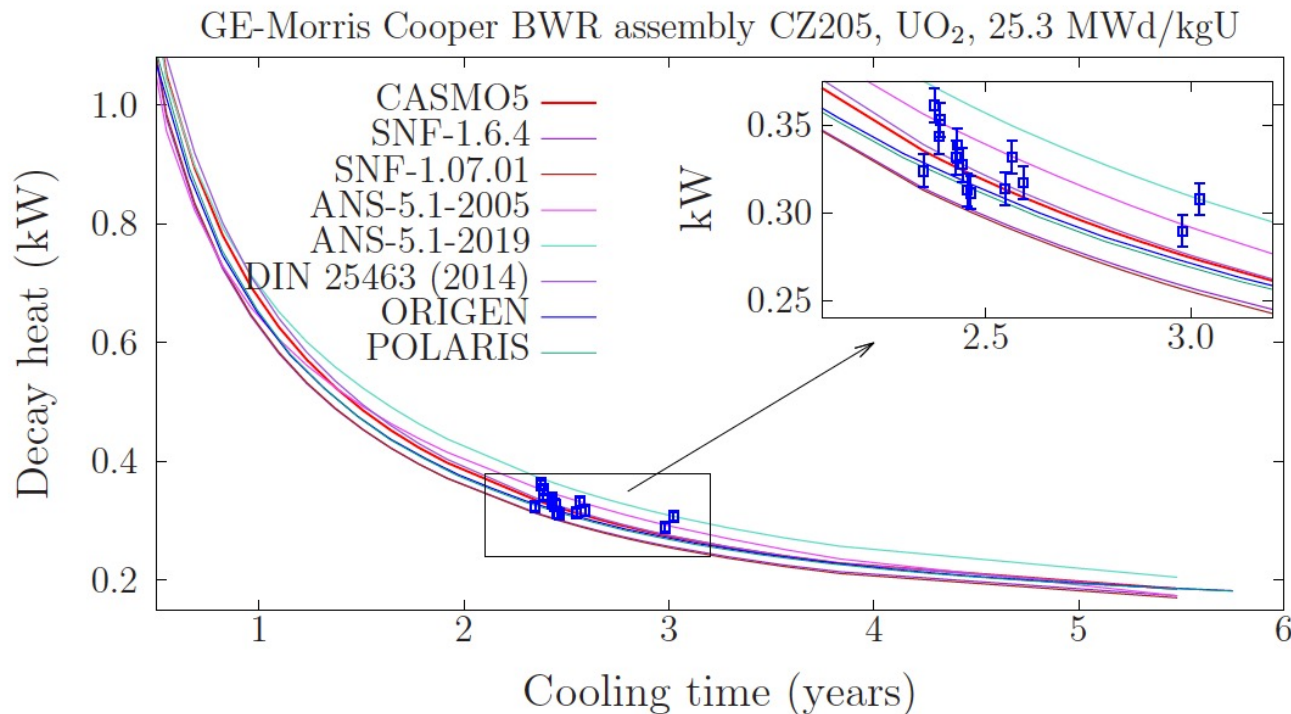
26th WPNCS meeting, OECD/NEA, online, January 28th, 2022

Summary

- Recall of the general goal & motivation
- Activities in 2021
- Participants

Subgroup general goal

- Goal: Provide users with reliable estimations of SNF-DH
 - Spent fuel from existing power plants
 - Decay heat for specific cooling periods (to be determined (*e.g.* < 3days, >months, years, decades, more))
 - Example of a realistic case:



- Presentation at the WPNCS meeting, July 2021
- Ad-hoc meeting “Proposed activities”, September 2021
– >30 participants, 12 countries, 2 international organizations
- Activity Proposal Sheet (APS) sent to WPNCS, November 2021

Deliverables / Expected results

Report (and possibly extended journal paper) on the “state-of-the-art” concerning experimental and simulated decay heat quantities (existing, available, and unavailable measured quantities, experimental techniques and available facilities in the NEA membership, usefulness and non-covered needs; simulation tools, nuclear data, methods...)

- Activity Proposal Sheet (APS) sent to WPNCS, November 2022

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|--|---|
| Milestones (Timescale) | <p>T0 : Accepted proposal and establishment of Subgroup T1 : T0 + 6 months : structure of the report (section names, expected details) T2 : T0 + 1 years : detailed description for a number of sections T3 : T0 +1.5 years : draft report, including updates from iterations T4 : T0 + 2 years : final report (and journal paper) for submission</p> |
| Lead organization and co-ordination (Individuals) | <p>Specify Co-ordinator(s) of the subgroup and organization taking primary responsibility for coordination of the subgroup and preparation of products. The co-ordinator</p> <ul style="list-style-type: none"> • D. Rochman, Paul Scherrer Institute, Switzerland |
| Monitor(s) (Individuals) | <ul style="list-style-type: none"> • O. Cabellos, UPM, Spain, Spanish delegate at the Nuclear Science Committee |

Slovenia

M. Kromar (IJS, Slovenia)

Spain

P. Álvarez, D. Cano (CIEMAT, Spain)

O. Cabellos (UPM, Spain)

F. Gomez (ENRESA, Spain)

Sweden

A. Sjöland (SKB, Sweden)

Switzerland

S. Caruso (KKG, Switzerland)

D. MacGinnes (AXPO, Switzerland)

D. Rochman (PSI, Switzerland)

E. Vlassopoulos (Nagra, Switzerland)

United Kingdom

L. Capponi (NNL, UK)

J. Lam (Rolls-Royce, UK)

R. Mills (NNL, UK)

USA

R. Hall (EPRI, USA)

G. Ilas, W. Wieselquist (ORNL, USA)

T. Simeonov (Studsvik, USA)

International Organizations

A. Koning (IAEA, Austria)

L. MacManniman (IAEA, Austria)

P. Schillebeeckx, S. Kopecky (JRC, Geel Belgium)

Belgium

L. Fiorito (SCK CEN, Belgium)

K. Govers (FANC, Belgium)

Bulgaria

P. Petkov (Sofia Univ., Bulgaria)

Finland

S. Häkkinen, P. Juutilainen, J. Leppanen (VTT, Finland)

France

A. Bardeley, R. Ichou (IRSN, France)

C. Carmouze, V. Vallet (CEA SPRC, France)

A. Launay, V. Leger (ORANO, France)

F. Malouch, A. Tsilanizara, S. Lahaye, T.-D. Huynh (CEA SERMA, France)

O. Bremnes, F. Laugier, D. Lecarpentier (EDF, France)

L. Giot (Subatech, France)

Germany

R. Dagan (KIT, Germany)

V. Hannstein, F. Sommer (GRS, Germany)

M. Seidl (PreussenElectra, Germany)

S. Tittelbach (WTI, Germany)

Japan

F. Minato (JAEA, Japan)

Y. Nauchi, S. Sato (CRIEPI, Japan)

T. Watanabe (JAEA, Japan)

Wir schaffen Wissen – heute für morgen

