Version: 10 March 2026

Conditions for Release, Rules and Restrictions Applying to the Benchmark Specifications for the Multiphysics Benchmark of a Heat-Pipe Microreactor (HP-MR)

The data and other information (Benchmark Information) related to the Multiphysics Benchmark of a Heat-Pipe Microreactor (HP-MR) are released under the following conditions:

1. Scope and Definitions
    a. HP-MR Benchmark Information includes two categories:
        i. Design Parameters / Benchmark Specifications ("Design Information"): benchmark design parameters, specifications, supporting documentation, and curated datasets provided by Argonne National Laboratory (ANL) to benchmark participants via NEA for the purpose of performing the benchmark.
        ii. Participant Output Results ("Results Information"): calculations, models, derived quantities, plots, tables, interpretations, and other outputs generated by participants using the Design Information and submitted to NEA/other participants as part of the benchmark.
    b. Benchmark Working Area: a website/portal provided by NEA for posting questions/clarifications and sharing benchmark materials.
2. Recipients agree that both Design Information and Results Information may be shared only within the participant's benchmark team. Recipients agree not to further distribute or otherwise disclose any Design Information or Results Information to third parties. The foregoing notwithstanding, Participants may publish their own Results Information if submitted for review 30 days prior to publication to benchmark organisers (NEA Secretariat and benchmark coordinator) and written approval is received from benchmark organisers.
3. Recipients receive no ownership rights and only a limited right to use the Design Information as necessary to perform the benchmark under these Conditions.
4. Recipients agree to use the Design Information and Results Information only for the purpose of the HP-MR Benchmark Study.
5. Recipients agree not to further distribute or sell the information to third parties. Notwithstanding the foregoing, nothing in these Conditions shall be interpreted to prohibit U.S. National Laboratories from sharing the Design Information with the U.S. Department of Energy (DOE) or its designee and other authorised parties solely for purposes of supporting, administering, or conducting the HP-MR Benchmark Study, provided such sharing is consistent with applicable restrictions.
6. Recipients agree to provide feedback on deficiencies or errors they may find in the Design Information.
7. Recipients agree to inform the benchmark organisers by e-mail 30 days prior to publication of any Results Information generated by themselves or other study results for which the HP-MR Benchmark data have been used.
8. Data and its documentation are provided on the understanding that whenever the use of the data obtained through the NEA, or locally modified versions of them, results in a publication (a journal, conference proceedings, laboratory report, book etc.), the data and their author or laboratory of origin shall be acknowledged in the publication.
9. Recipients agree to provide NEA with Results Information from any analyses completed as part of the benchmark. Participants agree that any Results Information submitted to NEA or any other participant will be clearly marked as "HP-MR Benchmark Results – Participant Submission" (or equivalent). Participants further agree that all Results Information may be published in NEA's final report.
10. Recipients agree that delegates have access to the Benchmark Working Area. Content posted there remains subject to these Conditions, including internal-only sharing.

Return to

OECD/Nuclear Energy Agency (NEA), 2 rue André Pascal, 75775 Paris Cedex 16, France

www.oecd-nea.org contact: wprs@oecd-nea.org (Tel: +33 (0) 1 73 21 29 02)

11. Participants of the benchmark agree to acknowledge the support of the benchmark by Argonne National Laboratory (ANL) and the U.S. DOE Nuclear Energy Advanced Modelling and Simulation (NEAMS) program, specifically referencing the paper N. E. Stauff, Y. Miao, Y. Cao, K. Mo, A. Abdelhameed, L. Ibarra, C. Matthews and E. R. Shemon, "High Fidelity Multiphysics Modeling of a Heat-Pipe Microreactor using BlueCrab," *Nuclear Science and Engineering Journal,* 1–17, 2024. DOI: 10.1080/00295639.2024.2375175

DISCLAIMER
Neither the Organisation for Economic Co-operation and Development nor any person acting on behalf of the organisation assume any liability with respect to the use of, or for damage resulting from the use of the data and information released.

I agree to these conditions:

Name: Organisation: Address: E-mail: Telephone:	Signature: