

OECD/NEA/NSC
PBMR COUPLED NEUTRONICS/THERMAL HYDRAULICS TRANSIENT
BENCHMARK THE PBMR-400 CORE DESIGN– 4th Workshop

OECD/NEA Headquarters, Room B, 12 boulevard des Iles, 92130 Issy-les-Moulineaux, France
24 – 25 January 2008

PROPOSED PROGRAMME Part II [P401]
(Status 17 January 2008)

Day 1: 24 January 2008

I. General Session (Chair: F. Reitsma)

1. 09:15 – 09:30 Introduction and opening remarks – introduction of participants [P402]
2. 09:30 – 09:35 Adoption of agenda
3. 09:35 – 10:20
 - 3a Feedback on Benchmark Specification updates and PBMRT4.0 meeting [P403]
 - 3b Feedback on special session planned for PHYSOR2008 [P404]

10:20 – 10:45 Break

II. Feedback by all participants I (Chair: K. Ivanov)

4. 10:45 – 12:45 Presentations from all participants on progress and results.
 - 4a Ramatsemela Mphahlele, Dundar Ucar, Kostadin Ivanov, "PBMR-400 Neutronics Model using MCNP5" [P405]
 - 4b B. Boer, D. Lathouwers, J.L. Kloosterman, "DALTON-THERMIX calculation results for the transient benchmark cases" [P406]
 - 4c Karim Sekhri, Djordje Tomasevic, Pavel Bokov: "Updated steady state OSCAR-4 results and further work related to the PBMR-400 MW benchmark (presented by Rian Prinsloo) [P407]
 - 4d Gerhard Strydom, "TINTE OECD PBMR 400MW Benchmark Results" [P408]
 - 4e V.Seker, T. Downar, "PARCS-3DTH Solutions of the PBMR-400 Benchmark Transients" (presented by K. Ivanov) [P409]

Discussions

12:45 – 14:00 Lunch

III. Feedback by all participants II (Chair: R. Prinsloo)

5. 14:00 – 16:00 Presentations from all participants on progress and results.
 - 5a Seung Wook Lee "MARS-GCR/CAPP Coupled Calculation for the OECD/NEA PBMR-400 Transient Benchmark Problems" [P410]
 - 5b Hyun Chul Lee, "Comparison of the FDM and the FEM solutions to the OECD/NEA PBMR-400 benchmark problem Ex I-1" [P411]
 - 5c Andreas Pautz, "Transient Studies with the Coupled Neutron Transport / Thermal Hydraulics Code System DORT-TD / THERMIX" [P412]
 - 5d Ivor Clifford, F Reitsma, G Strydom "Cross Section Representation options for HTR Transient Analysis tested on the OECD PBMR 400MW Transient Benchmark" [P413]

- 5e Hikaru Hiruta , Abderrafi M. Ougouag, Hans D. Gougar “Summary and Discussion of Results of Steady State and Transient Analyses by INL” Presented by Gerhard Strydom [P414]

Discussions

16:00 – 16:20 Break

IV. Benchmark Steady State Cases (Chair: G Strydom)

6. 16:20 – 17:30 Steady State Test case 1 & 2 (K Ivanov / F Reitsma)
- 6a J. Han, P. Mkabela, K. Ivanov, F. Reitsma, "Comparison of Steady State Results of OECD PBMR-400 Benchmark" [P415]
- 6b Discussion

Day 2: 25 January 2008

V. Transient Cases Comparisons (Chair: A. Pautz)

7. 09:00 – 12:30 Transient cases results and comparisons (K Ivanov / F Reitsma)
- 7a J. Han, P. Mkhabela, K. Ivanov, F. Reitsma: "Comparison of Participant Results for Transient Coupled Solution" [P416]
- 7b Discussion

10:00 – 10:25 Break

V. Transient Cases Comparisons - Continue (Chair: A. Pautz)

12:30 – 13:45 Lunch

VI. Transient cases Discussions and Conclusions (Chair: F. Reitsma)

8. 13:45 – 14:30 Transient Cases Discussions and Conclusions (K Ivanov / F Reitsma)
- 8a Discussion and summary

14:30 – 15:00 Break

VIII. Discussion and closing (Chair: F. Reitsma)

9. 15:00 – 16:00 Discussion of future actions, Special session at PHYSOR2008 and schedule
10. 16:00 – 16:15 Discussion of next meeting and missing deliverables
11. 16:15 – 16:30 Any other business and closure of meeting