

Preliminary Agenda

First International QUENCH Workshop*)

October 4 - 6, 1995

WEDNESDAY, October 4

- 9.00 h Pick-up at the Hotel EDEN
- 9.15 h Pick-up at the Hotel KÜBLER
- 9.45 h Registration

EXPERIMENTAL DATA BASE

- 10.00 h Welcome and introduction
- 10.15 h Comparison of QUENCH experiments
CORA-12, -13 and -17
- 11.00 h Experimental data base on PHEBUS rapid
cooling tests
- 11.30 h BREAK
- 11.50 h Calculational results from reflooding studies
- 12.15 h EC view on the RCA Project „Core Degradation“
- 12.30 h LUNCH
- 13.30 h Experiments on the quench behavior of fuel
rod segments
- 14.15 h Status of the planned quench experiments
with fuel element simulators
- 14.30 h Pre-test calculation for the planned
QUENCH facility using SCDAP/RELAP5
- 15.00 h BREAK
- 15.30 h Hydrogen uptake during steam oxidation
of Zr alloys
- 16.00 h Experimental results on hydrogen pick-up and
storage potential of Zircaloy-4
- 16.40 h ADJOURN
- 19.00 h Reception for the participants of the Workshop
by FZK (Gastdozentenhaus)

Chairman:

P. Hofmann
G. Heusener, FZK

S. Hagen, FZK

B. Adroguer, CEA

E. Pekkarinen, VTT
E. della Loggia, CEC

V. Noack, FZK
P. Hofmann

P. Hofmann, FZK
Ch. Homann,
W. Hering, FZK

L. Matus,
L. Maroti, KFKI

G. Schanz, FZK

*) Meeting location: Fortbildungszentrum für Technik und Umwelt (FTU),
Room 236, first floor

THURSDAY, October 5

- 9.00 h Pick-up at the Hotel EDEN
9.15 h Pick-up at the Hotel KÜBLER

MODELLING ACTIVITIES

- 9.45 h Review of debris formation data and possible transition criteria
10.30 h Assessment of quench modelling in SCDP/RELAP5 using CORA data
11.00 h BREAK
11.20 h Application of the further developed KESS code system to the CORA-13 quench test
11.40 h Quench front modelling with ATHLET-CD
12.00 h Assessment of the SCDAP/RELAP5 melt oxidation and reflood models
12.30 h LUNCH
13.30 h Code to simulate high-temperature oxidation during transients
14.00 h Consideration on stresses and cracking in oxide scales during a quench event
14.20 h Modelling of quench phenomena by the code system SVECHA
15.00 h BREAK
15.20 h Individual discussions
16.00 h ADJOURN

Chairman:

C. Allison

C. Allison, INEL
T.J. Haste, B.J. Holmes,
R.P. Hiles, AEA

Ch. Bals, J. Bestelev,
K. Trambauer, GRS

C. Allison, INEL

E. Garcia, ENREN

H. Steiner, FZK
A. Boldyrev, A. Palagin,
V. Shestak,
M. Veshchunov, IBREA

FRIDAY, October 6

- 9.00 h Pick-up at the Hotel EDEN
9.15 h Pick-up at the Hotel KÜBLER

ABSORBER MATERIAL BEHAVIOR

- 9.45 h The impact of (Ag, In, Cd) absorber materials on core melt progression and aerosol releases from the PBF 1-4 and LOFT FP-2 and the TMI-2 accident
10.30 h Core degradation on PHEBUS experiments: impact of (Ag, In, Cd) control rods
11.00 h BREAK
11.20 h Impact of absorber rod material on bundle degradation seen in CORA experiments
11.50 h Modelling of Zircaloy dissolution by molten (Ag, In, Cd) absorber alloy
11.20 h General discussion; closing remarks
12.50 h LUNCH
13.30 h Transportation to the hotels

Chairman:

B. Adroguer
R.R. Hobbins,
D. Osetek, Consult.

B. Adroguer, CEA

S. Hagen, FZK
M. Veshchunov,
P. Hofmann, FZK

13.30 h Continuation of the
SCDAP/RELAP5 Model Development Meeting