

Programm NUKLEAR / Program Nuclear Safety

Veröffentlichungen des Jahres 2006 / Publications 2006

Stand: 10. April 2007 / Updated April 10th, 2007

Auger, Th.; Dai, Y.; Glassbrenner, H.; Groeschel, F.; Henry, J.; Konys, J.; Terlain, A.
Structural materials for the MEGAPIE target. Summary report for MAGAPIE R&D tasks X7 and X10.

CEA Document Technique DMN/SRMA/LA2M/NT/2006-2761/A (Fevrier 2006)

Furukawa, T.; Aoto, K.; Konys, J.; Müller, G.

Corrosion behavior of weld joint of high chromium alloy in flowing lead bismuth eutectic under active oxygen control.

2nd COE-INES Internat.Symp.on Innovative Nuclear Energy Systems (INES-2), Yokohama, J, November 26-30, 2006

Konys, J.; Müller, G.

Corrosion and compatibility of unprotected structural materials in eutectic lead alloy.

Afinidad, 62(2005) S.388-93

Konys, J.; Müller, G.; Möslang, A.; Konobeev, A.

Korrosions-, mechanisches und Bestrahlungsverhalten von Materialien für kerntechnische Anlagen.

3.Sitzung des Beirates für das Programm Nukleare Sicherheitsforschung, Karlsruhe, 17.Februar 2006

Konys, J.

Lead/LBE impurity monitoring and removal.

1st Internat. Topical Seminar 'Coolants and Innovative Reactor Technologies', Aix-en-Provence, F, November 27-28, 2006

Konys, J.

Werkstoffentwicklung für Anlagen zur Transmutation (ADS).

Treffen der Materialforscher der Forschungszentren Karlsruhe und Jülich, Karlsruhe, 19.-20. Juni 2006

Schanz, G.; Stegmaier, U.; Heck, M.

Alternative evaluation of the breakaway kinetics of zirconium alloys and applicability.

Steinbrück, M. [Hrsg.]

Proc. of the 12th Internat. Quench Workshop, Karlsruhe, October 24-25, 2006; Forschungszentrum Karlsruhe GmbH, 2006

ISBN 978-3-923704-57-6

Schanz, G.; Stegmaier, U.; Heck, M.

Post-test evaluation of QUENCH-11 (boil-off experiment).

Steinbrück, M. [Hrsg.]

Proc. of the 12th Internat. Quench Workshop, Karlsruhe, October 24-25, 2006, Forschungszentrum Karlsruhe GmbH, 2006

ISBN 978-3-923704-57-6

Schanz, G.; Heck, M.; Hozer, Z.; Matus, L.; Nagy, I.; Sepold, L.; Stegmaier, U.; Steinbrück, M.; Steiner, H.; Stuckert, J.; Windberg, P.

Results of the QUENCH-10 experiment on air ingress.

Wissenschaftliche Berichte, FZKA-7087 (Mai 2006)

SAM-LACOMERA-D09

Schanz, G.

Semi-mechanistic approach for evaluation of Zr oxidation experiments.

American Nuclear Society Annual Meeting, Reno, Nev., June 4-8, 2006

Schanz, G.

Semi-mechanistic approach for evaluation of Zr oxidation experiments.

Transactions of the American Nuclear Society, 94(2006) S.138-39

Schroer, C.; Voß, Z.; Wedemeyer, O.; Novotny, J.; Konys, J.

Oxidation of steel T91 in flowing lead-bismuth eutectic (LBE) at 550°C.

Journal of Nuclear Materials, 356(2006) S.189-97

Sepold, L.; Hozer, Z.; Schanz, G.; Stegmaier, U.; Steinbrück, M.; Stuckert, J.

A QUENCH experiment including an air ingress phase prior to flooding.

American Nuclear Society Annual Meeting, Reno, Nev., June 4-8, 2006

Sepold, L.; Hozer, Z.; Schanz, G.; Stegmaier, U.; Steinbrück, M.; Stuckert, J.

A QUENCH experiment including an air ingress phase prior to flooding.

Transactions of the American Nuclear Society, 94(2006) S.140-41

Sepold, L.; Steinbrück, M.; Stuckert, J.

Introduction of the Quench-13 experiment with AIC absorber.

SARNET Source Term WP 14.1 Progress Meeting, Aix-en-Provence, F, October 17, 2006

Sepold, L.; Schanz, G.; Steinbrück, M.; Stuckert, J.; Miassoedov, A.; Palagin, M.; Veshchunov, M.

Results of the QUENCH-09 experiment compared to QUENCH-07 with incorporation of B₄C

absorber.

Nuclear Technology, 154(2006) S.107-16

Sepold, L.; Hering, W.; Schanz, G.; Scholtyssek, W.; Steinbrück, M.; Stuckert, J.

Severe fuel damage experiments performed in the QUENCH facility with 21-rod bundles of LWR-type.

Technical Meeting on Severe Accident and Accident Management for Nuclear Power Plants, Tokyo, J, March 14-16, 2006

Stegmaier, U.; Stuckert, J.; Sepold, L.

Post-test appearance of QUENCH-11 bundle.

Steinbrück, M. [Hrsg.]

Proc. of the 12th Internat. Quench Workshop, Karlsruhe, October 24-25, 2006, Forschungszentrum Karlsruhe GmbH, 2006

ISBN 978-3-923704-57-6

Steinbrück, M.; Miassoedov, A.; Schanz, G.; Sepold, L.; Stegmaier, U.; Stuckert, J.

Experiments on air ingress during severe accidents in LWRS.

Nuclear Engineering and Design, 236(2006) S.1709-19

Steinbrück, M.; Große, M.; Stuckert, J.; Sepold, L.; Schanz, G.

QUENCH: Experimente zum Abschrecken eines überhitzten Reaktorkerns.

Treffen der Materialforscher der Forschungszentren Karlsruhe und Jülich, Karlsruhe, 19.-20.Juni 2006

Steiner, H.; Heck, M.

Calculations of QUENCH tests with the FZK bundle code CALUMO.

Wissenschaftliche Berichte, FZKA-7192 (März 2006)

Steiner, H.; Konys, J.; Heck, M.

Growth stresses in oxidation tubes under uni- and multi-axial oxidation strain.

Oxidation of Metals, 66(2006) S.37-67

Steiner, H.; Konys, J.

Heat and mass transfer calculations in heavy liquid metal loops under forced convection flow conditions.

Journal of Nuclear Materials, 348(2006) S.18-25

Steiner, H.; Konys, J.

Stresses in oxidized claddings and mechanical stability of oxide scales.

Wissenschaftliche Berichte, FZKA-7191 (März 2006)

Steiner, H.; Heck, M.; Konys, J.

Stresses in oxidizing tubes: An analytical solution of the stress-strain equations.

Wissenschaftliche Berichte, FZKA-7232 (Juni 2006)

Stieglitz, R.; Knebel, J.; Fazio, C.; Müller, G.; Konys, J.

Heavy liquid metal technologies development in KALLA.

Internat. Congress on Advances in Nuclear Power Plants (ICAPP '06), Reno, Nev., June 4-8, 2006

Proc. on CD-ROM S.478-87 (Paper 6277)

La Grange Park, Ill. : American Nuclear Soc., 2006

ISBN 0-89448-698-5

Stuckert, J.; Steinbrück, M.; Stegmaier, U.

Development of the metallic layer on the surface of oxidised Zry-cladding under steam starvation conditions.

ISTC/WTZ Progress Meeting, Moskva, Russia, July 3-6, 2006

Stuckert, J.; Hering, W.; Sepold, L.; Steinbrück, M.

First results of the QUENCH-11 experiment.

Annual SARNET Review Meeting, Paul Scherrer Institut, Villigen, CH, January 30, 2006

Stuckert, J.; Moch, J.; Sepold, L.; Stegmaier, U.; Steinbrück, M.

QUENCH-11 test, QUENCH phase.

Steinbrück, M. [Hrsg.]

Proc. of the 12th Internat. Quench Workshop, Karlsruhe, October 24-25, 2006, Forschungszentrum

Karlsruhe GmbH, 2006

ISBN 978-3-923704-57-6

Stuckert, J.; Große, M.; Moch, J.; Sepold, L.; Stegmaier, U.; Steinbock, L.; Steinbrück, M.

Results of the QUENCH-12 experiment on reflood of the VVER bundle.

Steinbrück, M. [Hrsg.]

Proc. of the 12th Internat. Quench Workshop, Karlsruhe, October 24-25, 2006, Forschungszentrum

Karlsruhe GmbH, 2006

ISBN 978-3-923704-57-6

Stuckert, J.; Große, M.; Stegmaier, U.

Review of the QUENCH-12 (QUENCH/WWER) pre-test calculations and high- temperature oxidation rate of Zr1%Nb.

ISTC/WTZ Progress Meeting, Moskva, Russia, July 3-6, 2006