

# Wissenschaftliche Publikationen des Fachbereiches Sicherheit in der Kerntechnik - SK 2005 – 2016

**2016**

## Beiträge zu Sammelwerken (Fremdverlag) / Paper in Tagungsbänden

**Fassmann, W., Beck, J., Kopisch, C.** The Regulatory approach for the assessment of safety culture in Germany – a tool recommended for practical use for inspections, International Conference on Human and Organizational Aspects of Assuring Nuclear Safety, 22-26 February 2016, Vienna, Austria

**Rehs, B.** Regulatory Requirements for Decommissioning of Nuclear Facilities in Germany, International Conference on Advancing the Global Implementation of Decommissioning and Environmental Remediation Programmes, Proceedings, 23-27 May 2016, Madrid, Spain

**K. Niedzwiedz, M. Schneider, H.-P. Berg.** Safety Reviews of Research Reactors in Germany – Graded Approach for the periodic safety review according to § 19a of the Atomic Energy Act. International Conference on Research Reactors: Safe Management and Effective Utilization, Vienna, Austria, 16 – 20 November 2015, Proceedings, IAEA-CN-231-64

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**Hellmich, M.** Statistical inference of a software reliability model by linear filtering, *Journal of Statistics & Management Systems*, Taylor & Francis Group, Vol. 19 (2016), No. 2, pp. 163 – 181, 2016

**Berg, H.P.** How to investigate and assess combination of hazards, *Journal of Polish Safety and Reliability Association*, Summer Safety & Reliability Seminars (SSARS), Volume 7, Number 1, 1 - 12, 2016

**Iancu, A., Berg, H.P., Krauß, M.** Hazard assessment in case of external flooding, *Journal of Polish Safety and Reliability Association*, Summer Safety & Reliability Seminars (SSARS), Volume 7, Number 1, 87 - 98, 2016

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**Bredberg I, Hutter J, Kühn K, Niedzwiedz K, Philippczyk F, Thömmes A.** Statusbericht zur Kernenergienutzung in der Bundesrepublik Deutschland 2015. BfS-SK-27/16, urn:nbn:de:0221-2016051914042, Mai 2016

**Bredberg I, Hutter J, Kühn K, Niedzwiedz K, Philippczyk F, Thömmes A.** State and Development of Nuclear Energy Utilization in the Federal Republic of Germany 2015, BfS-SK-28/16, urn:nbn:de:0221-2016072114054, Juli 2016

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**Berg, H.P.** Enhancement in PSA Regulation and Guidance on Fire Risk Analysis for Nuclear Power Plants, 23<sup>rd</sup> International Conference on Structural Mechanics in Reactor Technology (SMiRT 23) – 14<sup>th</sup> International Post-Conference Seminar on “Fire Safety in Nuclear Power Plants and Installations”, 61 – 69, Salford, United Kingdom, 2015

**Berg, H.P.**, Griebel, S., Milius, B. Comparing operations in nuclear and railways based on a socio-technical system model, Safety and Reliability of Complex Engineered Systems – Podofillini et al. (Eds) © 2015 Taylor & Francis Group, London, ISBN 978-1-138-02879-1, 4359 – 4365, 2015

**Berg, H.P.** Guidance for Performing Fire PRA in Germany, International Workshop on Fire Probabilistic Risk Assessment (PRA), Workshop Proceedings, Garching, Germany, April 28-30, 2014, Nuclear Safety, NEA/CSNI/R(2015)12, 329 – 338, 2015

**Berg, H.P., Fritze, N.,** Forano, D. First Investigations Regarding Combinations of Fires and Other Events in the OECD FIRE Database, International Workshop on Fire Probabilistic Risk Assessment (PRA), Workshop Proceedings, Garching, Germany, April 28-30, 2014, Nuclear Safety, NEA/CSNI/R(2015)12, 223 – 231, 2015

**Berg H.P., Krauß M.** Röwekamp M. Amendments of the existing guidance on PSA application to nuclear power plants in Germany. Safety and Reliability: Methodology and Applications, Taylor & Francis Group, ESREL 2014, London ISBN 978-1-138-02681-0, 1599 – 1604, published 2015

**Berg, H.P.**, Petrek, N. Approaches and Regulations Regarding Significant Modifications in Transportation and Nuclear Safety, Safety of Marine Transport – Marine Navigation and Safety of Sea Transportation – A. Weintrit & T. Neumann (eds.), 283 – 291, 2015

Hutle, M., **Seidel, F.** Vulnerability analysis of digital instrumentation and control systems important to safety – a methodical approach, IAEA International Conference on Computer Security in a Nuclear World: Expert Discussion and Exchange, Vienna, 1-5 June 2015

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Röwekamp, M., Türschmann, M., **Berg, H.P.** Werner, W. & Werner, A. First applications of the OECD FIRE database within fire PSA for nuclear power plants in Germany, Safety and Reliability of Complex Engineered Systems – Podofillini et al. (Eds) © 2015 Taylor & Francis Group, London, ISBN 978-1-138-02879-1, 573 – 580, 2015

**Seidel, F.** Licensing of safety critical software for nuclear reactors: Common position of international nuclear regulators and authorised technical support organisations, BEL V, Belgium; BfS, Germany; CSNC, Canada; CSN, Spain; ISTec Germany; ORN, United Kingdom; SSM, Sweden; STUK, Finland, Dezember 2015

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Röwekamp M, Lehto M, **Berg H.P.** Melly Nicholas, Werner W. OECD FIRE Database Applications and Challenges – A Recent Perspective. Probabilistic Safety Assessment and Management (PSAM) 12, paper 550, Honolulu, Hawaii, USA, 22 – 27 June 2014

**Seidel, F.** Licensing of safety critical software for nuclear reactors: Common position of seven European nuclear regulators and authorised technical support organisations, BEL V, Belgium; CSN, Spain; ISTec Germany; NII, United Kingdom; SSM, Sweden; STUK, Finland; CSNC, Kanada; BfS, Germany, August 2014

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**Krauß M, Berg H.P.** Regulatory Perspective on Benefits of Periodic Safety Reviews Transactions. SMIRT-22, 13<sup>th</sup>, San Francisco, California, USA, 18 – 23 August, 2013, Division VIII

**Krauß M,** Elsche B, Roth G. Design of Nuclear Power Plants against Seismic Events in Germany – Seismic instrumentation and Postseismic Actions. SMIRT-22, 13<sup>th</sup> International Seminar on Fire Safety in Nuclear Power Plants and Installations, San Francisco, California, USA, 18 – 23 August 2013, Division VII

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**Berg H.P,** Toth C, Röwekamp M. Periodic Safety Review: A Tool to Maintain and Enhance Safety. Proceedings of the 20<sup>th</sup> International Conference on Nuclear Engineering collocated with the ASME 2012 Power Conference, ICONE20-POWER2012, 2012, Anaheim, USA, Paper 54441, 30 July – 3 August 2012

Forell B, Einarsson S, Röwekamp M, **Berg H.P.** Updated Technical Reliability Data for Fire Protection Systems and Components at a German Nuclear Power Plant. Proceedings of the 11<sup>th</sup> International Probabilistic Safety Assessment and Management Conference & The Annual European Safety and Reliability Conference, Helsinki, Finland, Curran Associates, Inc. 3783 – 3794, 25 – 29 June 2012

**Kopisch C, Berg H.P, Krauß M.** The Role of the Regulator in the field of Safety Culture. The 1<sup>st</sup> International Workshop on Safety & Security Risk Assessment and Organisational Cultures (SSRAO2012), Antwerpen, 29 – 31 January 2012

**Krauß M, Berg H.P.** Contribution to a Concept of Robustness for Risk Management for Critical Infrastructure. Proceedings of the 11<sup>th</sup> International Probabilistic Safety Assessment and Management Conference & the Annual European Safety and Reliability Conference, Helsinki, Finland, Curran Associates, Inc., 2189 – 2198, 25 – 29 June 2012

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