

## Lessons learned from the QUENCH Programme at FZK

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Test Date	Quench medium and injection rate	Temp. at onset of flooding	H <sub>2</sub> production before / during cooldown	Remarks
QUENCH-07 July 25, 2001	Steam 15 g/s	≈ 2100 K	66 / <mark>120</mark>	Impact of B <sub>4</sub> C absorber rod failure on bundle degradation and H <sub>2</sub> , CO, CO <sub>2</sub> , and CH <sub>4</sub> generation.
QUENCH-08 July 24, 2003	Steam 15 g/s	≈ 2090 K	46 / 38	As QUENCH-07, no absorber rod
<b>QUENCH-09</b> July 3, 2002	Steam 49 g/s	≈ 2100 K	60 / <mark>400</mark>	As QUENCH-07, steam- starved conditions prior to cooldown.
Strong i bundle of	nfluence of t	ooron carbi due to	de on hydroge	en source term and
Eute rapi	ectic interact d melt forma	ions betwe ition at abo	en B₄C, SS, a ut 1200 °C	nd Zry leading to
Hiał	n oxidation p	otential of l	boron carbide	





























