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## Safety Aspects of HTR Technology

Visit of the NRC – Delegation to Germany

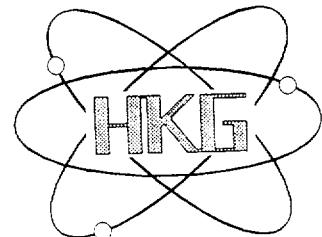
23 to 27 July 2001

**THTR operation experience, test programs,  
overview, highlights, lessons to be learned**

Guenther Dietrich  
Ivar Kalinowski

Juelich, 25 July 2001

**HOCHTEMPERATUR-KERNKRAFTWERK**  
GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG  
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# **THTR operation experience, test programs, overview, highlights, lessons to be learned**

**Guenther Dietrich, Ivar Kalinowski**

Juelich, 25 July 2001

## **Literature**

- R. Baeumer** The Situation of the THTR in October 1989, VGB Kraftwerkstechnik, Volume 70, No 1, January 1990
- R. Baeumer** Ausgewählte Themen aus dem Betrieb des THTR 300, VGB Kraftwerkstechnik, Volume 69, Heft 2, Februar 1989
- R. Baeumer** THTR 300 – Erfahrungen mit einer fortschrittlichen Technologie, atomwirtschaft, Mai 1989
- R. Baeumer, I. Kalinowski** THTR Commissioning and Operating Experience, Dimitrovgrad, June 1989

# **Resume**

- THTR 300 a prototype reactor**
- THTR 300 the first step to commercialization of HTR in Germany**
- Availability and outage times typical for prototype**
- no problems with core**
- design data reached and verified**
- unavailability mainly given by refueling system**
- low coolant gas radioactivity**
- negative temperature coefficient verified**
- airborne and waterborne release of radioactivity well below licensed limits**
- low individual dose rates in operation and outages**

