

25. June 2001

Draft - Agenda

Visit of the NRC-Delegation to Germany

on the Topic

HTR Technology for Future Applications

for Monday, 23 July to Thursday, 26 July 2001

Visit of the NRC-Delegation to Germany on the Topic

HTR Technology for Future Applications

Monday 23 July 2001, GRS, Cologne

Introductory meeting and overview of the German HTR programme

- Welcome to GRS
- Information about GRS and the RSK
- Status of nuclear energy application in the Federal Republic of Germany, background and recent decisions
- The mission of the NRC delegation
NRC representative
- Overview of the HTR programme in Germany, considerations by the former vendor industries side, from the beginnings to the present
- Overview of the HTR programme in Germany, considerations by the regulatory side in connection with the mission of the delegation
- Know-how transfer to ESKOM for a PBMR
Safety analysis report HTR-module
License: Access to the total HTR-know-how Consultancy work

Visit of the NRC-Delegation to Germany on the Topic

HTR Technology for Future Applications

Tuesday, 24 July 2001, FZJ, Research Centre Jülich

Main Topic:

Research in the German HTR programme at FZJ

- Welcome to the Research Centre Jülich
- Information on the work of the Research Centre Jülich of interest to the NRC delegation
- Overview of the German HTR programme, viewpoints of research and development at the FZJ, former Nuclear Research Centre Jülich
- Fuel element R & D and industrial production in Germany, former company NUKEM
- Fuel element research and development programme, aspect of irradiation and post-irradiation examination: establishment of the retention capability limit temperature of 1600 °C
- Nuclear graphite for the HTR in the German programme, research, development and industrial production
- HTR component R & D and industrial testing

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Wednesday, 25 July 2001, Research Centre Jülich

Main Topic:

“Operational Experiences of AVR and THTR, Know-how Transfer to South Africa and Visits to Plants and Experimental Phases”

- AVR operation experiences, overview highlights, lessons to be learnt
- THTR operation experiences, overview, highlights, lessons to be learnt
- Neutron Physics and pebble flow
- Consultancy work of FZJ members to ESKOM for the PBMR
Export of fresh fuel elements, HTR components and experimental staff
- Visit to AVR
- Visit to the Hot Cells
- Visit to intermediate storage facility
- Visit to experimental hall no. IV: experimental work on self-acting removal of decay heat

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Thursday, 26 July 2001, GRS, Cologne

Main Topic: Regulatory Aspects and Safety Assessment

- Safety Issues during licensing
 - Fuel
 - containment
- Rules and standards
- Final appraisal