

21st Plenary Meeting of the Working Group "Hot Cells and Remote Handling"

10-11 June 1982, Mol, Belgium
Conference Room, S.C.K./C.E.N.

AGENDA

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Thursday 10 June 1982

9.00 h : Registration

9.30 h : Opening Session

9.45 h : A. Refabrication and re-irradiation of fuel

- ① FABRICE : Techniques de refabrication en cellule chaude de crayons expérimentaux à partir de crayons pré-irradiés en réacteur de puissance
N. VIGNESDULT, R. ATABEK, S. DUCAS / Van Craeynest
(DTECH-SELECI-Saclay)
- ② EURDS, European Remote encapsulation Operating System
J. KONRAD, P. VON DER HARDT
(EURATOM-Petten)
- ③ Remontage d'assemblages et de dispositifs d'irradiation en laboratoire chaud
P. BOYER, P. MILLET
(DDEC-LDAC Cadarache)

4. Discussion

10.45 h : Coffee break

11.00 h : B. New techniques used in hot laboratories

a) Technical studies of fracture mechanisms

- ① Bruchmechanische Prüfmethode an bestrahlten Druckbehälterstählen
H.B. HEBENBROCK, S.J. SCHMITT, W. SPALTHOFF
(Geesthacht)
- ② Mechanical testing and equipment for the pressure vessel steel surveillance
A. DANIELS, A.C. DEMILDT, J. VAN DE VELDE, T. VAN RANSBEECK
(LHMA-SCK/CEN-Mol)

3. Discussion

b) Simulated transients experiments upon nuclear fuel in hot cells

- ① Experimental determination of the behaviour of irradiated PWR fuel rods during simulated transients
P. HINDMARCH
(UKAEA-Windscale)
- ② Simulation en cellule chaude de combustibles en système transitoire
M. COQUERELLE
(Institut des Transuraniens - Karlsruhe)

3. Discussion

c) Metrology

- ①. Development of a system for the metrology of irradiated fuel rods using photodiode arrays
M.T. CROSS
(UKAEA-Windscale)
- ②. Messung der Verformung und der Spannungsfreisetzung an einem bestrahlten Reaktor-Grafitblock
K.A. STRADAL, W. REISEN
(Jülich)
- ③. A computer controlled machine for the assessment of shape changes of irradiated graphite sleeves from advanced gas cooled reactor fuel elements
P.S. FRASER (Winfrith)
B.D. CLAY, G.F. HINES (Berkeley)
4. Discussion

13.15 h

to 14.45 h : Lunch in the Club House of the S.C.K./C.E.N.

15.00 h : Continuation of the meeting

d) Spectrometry

- ①. Determination of retained gas in irradiated fuel samples
M. MOGENSEN
(Risø)
- ②. Analyse radiale par spectrométrie gamma des combustibles PWR. Mise au point des techniques et application du code TOMOGAM
M.T. PINEIRA, M. TROTABAS
(DTECH-SECS-Seleci - Saclay)
- ③. Non-destructive assessment of fission gases released in water reactor fuel rods
C. BAGGER
(Risø)

4. Discussion

16.15 h : Coffee break

16.30 h : C. Various

- ①. Identification of defects in fuel hulls by eddy-current testing
W. NAGELE
(Kernforschungszentrum-Karlsruhe)
- ②. Search for defect pins in irradiated fast breeder fuel element
H. ENDERLEIN
(Kernforschungszentrum-Karlsruhe)
- nicht - ③. Inspection von Brenn- und Steuerelementen mittels Neutronenradiographie mit einer kleinen Antimon-Beryllium-Neutronenquelle
L. GREIM, W. SPALTHOFF
(Geesthacht)
- nicht - ④. A facility for testing steels
M. STAGG
(CEGB, BNL)

- ⑤ A high purity inert atmosphere cell suite for research purposes - design and operating experience
J.T. DEMANT
(Harwell)

6. Discussion

18.00 h : General Discussion

19.00 h

to 22.00 h : Reception and dinner in the Club House of the S.C.K./C.E.N.

Friday 11 June 1982

9.00 h : Continuation of the meeting

D. Transfers and handling of solid and/or liquid waste

- ①. PIE Radwaste - handling and transfer techniques in the UK
S.A. COTTRELL
(Winfrith)
- ②. Handling and conditioning of active waste in the KWU hot cell facility
P. FRANKE
(KWU-Karlstein)
- ③. Drainagesystem für mittelaktiven flüssigen Abfall an den heißen Zellen in Jülich
K.A. STRADAL
(Jülich)
- *vaak weg* 4. Lixiviation et enrobage de déchets alpha dans un laboratoire chaud.
R. SONTAG, G. KOEHLI
(Fontenay-aux-Roses)

10.30 h : Coffee break

- 10.45 h : ⑤. Remote maintenance procedures in a high active waste solidification plant
M. SELIG
(Kernforschungszentrum-Karlsruhe)
- ⑥. Conditionnement de déchets tritiés en enceintes actives
L. HAYET, P. BOURDINAUD
(Saclay)

7. Discussion

E. Various

1. PIADÉ : portique d'intervention adapté au démantèlement des enceintes
J. VERTUT
(Saclay)
2. New hot cell facility for post-irradiation examination
P. BEULLENS, A. DANIELS, A.C. DEMILDT, A. GYS, J. VAN DE VELI
C. VAN LOON, T. VAN RANSBEECK
(LHMA-SCK/CEN-Mol)
3. Discussion

12.00 h : General Discussion

13.00 h

to 14.30 h : Lunch in the Club House of the S.C.K./C.E.N.

15.00 h : Visit to the hot laboratories

17.00 h : Departure by bus to Antwerp (railway-station of Berchem) and
Brussels (Zaventem Airport and central railway-station)