

ENC 2002 Conference

Nuclear Power Generation Safe and Competitive – Now and in Future

Invited Papers Program (Status Sept.26)

General Co-Chairs: Wolf-Dieter Krebs, European Nuclear Society and

Framatome ANP (Germany)

Donald R. Hoffman, American Nuclear Society and

EXCEL Services Corporation (USA)

Monday, October 7, 2002, 16:30 to 19:00

Co-Chair: Donald R. Hoffman, ANS

Wolf-Dieter Krebs, ENS

Opening remarks

Wolf-Dieter Krebs, European Nuclear Society and Framatome ANP (Germany)

Part 1: New Competitive NPPs

- Nuclear Energy in Future Sustainable, Competitive Energy Mixes OECD / NEA, Luis Echávarri
- 2. Evolutionary, Innovative and Passive Reactor Concepts Reviewed by the European Utility Requirements (EUR) Group Forsmark Kraftgrupp AB (Sweden) and EUR Steering Committee, Karl-Fredrik Ingemarsson
- 3. The Replacement of Existing French Nuclear Generation Facilities EDF (France), Bernard Dupraz
- 4. Advanced Reactors Design and Construction Lessons for the Future GENE (USA), John Redding and Steven A. Hucik
- 5. The Framatome ANP Advanced Reactor Designs Framatome ANP (France), Vincent Maurel
- 6. Advancing the Competitive Future of Nuclear Power Westinghouse (USA), Charles W. Pryor Jr.

Tuesday, October 8, 2002, 9:00 to 10:45

Chair: Luis E. Echávarri, OECD/NEA (France)

- 7. The Essential Importance of Long-term Procurement Contracts to New NPPs in Competitive Markets ANS and Southern California Edison (USA), Harold B. Ray
- 8. The New ACR-700 Design AECL (Canada), Romney B. Duffey, J. Hopwood, I. Love, D.F. Torgerson, A. Alizadeh and D. Tregunno

Part 2: NPP Generation Cost Reduction

- 1. Additional Competitiveness and Safety by Modernization at Olkiluoto TVO (Finland), Ami J. Rastas
- 2. Cost Reduction Program in Electrabel NPP Electrabel (Belgium), Lucas Mampaey

Tuesday, October 8, 2002, 11:15 to 13:15

Co-Chairs: Charles W. Pryor jr., Westinghouse (USA)

Ami Juhani Rastas, Teollisuuden Voima Oy (Finland)

- 3. Nuclear Plant Asset Enhancement Lessons Learned from Utility / Vendor Partnerships GENE (USA), Mark T. Savoff
- 4. The Spanish Nuclear Power Plants in a Competitive Market UNESA (Spain), Eduardo Martin Baena
- 5. Operating Cost Reduction by Optimization of I & C Backfitting Strategy Framatome ANP (Germany), Heinz-Ullrich Kraft
- 6. Forsmark NPP I & C Modernization Strategy Westinghouse (Sweden), Johan Hallén, Ingemar Rydahl and Forsmarks Kraftgrupp, Lennart Kloow
- 7. Information Technology Change in the Nuclear Generation Environment Consultant (UK) Rory Quigley and British Energy (UK) Bill Doig

Tuesday, October 8, 2002, 14:30 to 16:15

Co-Chairs: Christian Waeterloos, DG TREN – European Commission (Luxembourg) Jacques Bouchard, Commissariat à l'Energie Atomique (France)

- 8. Engineering Services and Operating Performance Enhancement: One Key to Plant Competitiveness Framatome ANP, Alain Gautier (France) and Heinrich Watzinger (Germany)
- 9. Improved Competitiveness and Safety of Nuclear Power Plants Federation of Electric Power Companies (Japan), Sakae Muto
- 10. ENDESA (Ascó 1 and Vandellós II) Consolidation Experience Westinghouse (Spain), Tony Granda and ANAV (Spain) Juan Jose Peréz Torrent

11. Nuclear Generation Safety and Competitiveness — EDF (France), Laurent Stricker

Tuesday, October 8, 2002, 16:45 to 18:30

Co-Chairs: Vincent Maurel, Framatome ANP (France)
Hans-Holger Rogner, IAEA (Austria)

- 12. Vattenfall Generation From Cost Centre to Profit Centre Vattenfall (Sweden), Dag Djursing and Alf Lindfors
- 13. Long-Term Optimization of Outage Performance Framatome ANP (Germany) Alexander Hümmeler and E.ON (Germany) Siegfried Seifert
- Utility Cost Reduction Program at FPL Florida Power & Light (USA), John A.
 Stall
- Generation Cost Reduction Measures in Czech NPP CEZ (Czech Republic), Josef Sedlák

Wednesday, October 9, 2002, 9:00 to 10:45

Co-Chairs: Pat Upson, Urenco Ltd (UK)

Udo Brockmeier, EnBW (Germany)

- 16. Improving Economics of Nuclear Power Towards Safe, Efficient and Professional Operation TEPCo (Japan), Akira Omoto
- 17. Challenge of Safe NPP Operation and Construction in an Economy in Transition SNN (Romania), Ioan Rotaru and Mircea Metes
- 18. Stringent Cost Management and Preservation of Safety Culture, a Contradiction? RWE Power (Germany), Klaus Petersen and Hartmut Pamme
- 19. In Service Inspection Its Contribution to Life Management Reducing O&M Costs TECNATOM (Spain), Antonio Alonso

Wednesday, October 9, 2002, 11:15 to 13:15

Co-Chairs: Steven A. Hucik, GE Nuclear Power Plants (USA)

Josef Sedlák, Jaderná Elektrárna Dukovany (Czech Rep.)

Part 3: Fuel Cycle Cost Reduction

- 1. The Status of BNFL's MOX Project BNFL (UK), John Edwards, Julian P. Cooch, Michael W. Slater, Howard D. Cooper and Paul M.A. Cook
- 2. Advanced Fuel Designs and Integrated Core Fuel Management, Key Factors for Minimum Power Generation Costs Framatome ANP, Ulrich Giese (Germany), Stefan vom Scheidt (France), John Matheson (USA)
- 3. Nuclear Fuel Globalization, Consolidation and Challenge GNF (USA), John D. Fuller
- **4.** 12 Years Fuel Evolution Experience at Leibstadt NPP Westinghouse (Sweden), Sture Helmersson, Seppo Korhonen and EGL (Switzerland) Tony Williams
- 5. EURODIF / COGEMA, Permanence and Competitiveness in Enrichment, Technological Transition with a Long-term View - COGEMA / Eurodif (France), Jean-Luc Salanave, C. Bastidon, A. de Bourayne, C. Delacroix, N. de Turckheim

Wednesday, October 9, 2002, 14:30 to 17:00

Chair: Hans Fuchs, Aare-Tessin AG für Elektrizität (Switzerland)

6. Benefit of Research in Fuel Performance - ENUSA (Spain), José E. Gutierrez Elso and José L. González

Part 4: Waste, Transport and Decommissioning Cost Reduction

- 1. Strategies for Safe and Cost-efficient Management of Nuclear Wastes in Finland POSIVA (Finland), Veijo Ryhänen
- 2. Meeting the Needs of Utility Customers within the Current Requirements for Spent Fuel Transports BNFL (UK), Mike Cavanagh
- 3. Transportation and Storage a Mature Industry in an Evolving Environment COGEMA Logistics (France), Vincent Roland
- 4. Reactor Decommissioning in a Deregulated Market BNFL (UK), George Beverridge and Tim Cooper

Closing remarks

Hans Forsstroem, European Commission DG Research and José L. González, European Nuclear Council and ENUSA (Spain)