AGENDA

Monday May 23, 2011

09:00 – 11:00 Registration

Opening session
11:00 – 11:20 Opening address, local host/TM chair
11:20 – 11:40 V. Inozemtsev (IAEA), IAEA update
11:40 – 12:00 A. Leenaers (SCK•CEN), HOTLAB update
12:00 – 13:30 Lunch break

Session Inspection
  Session chairs: F. Flachet (ELECTRABEL) and R. Zajac (VUJE)
13:30 – 14:00 Gamma spectrometric measurement of burnup-calculation part, V. Chrapčiak, VUJE, Slovak Republic
14:00 – 14:30 Visual inspection and metrology as follow-up of CCs and FEs of a new design for Atucha I NPP, G. Ruggirello, CNEA, Argentina
14:30 – 15:00 Gamma spectrometry for burnup determination of spent fuel assemblies at the Paks NPP, I. Almási, Institute of Isotopes, Hungarian Academy of Sciences, Hungary
15:00 – 15:30 Coffee break
15:30 – 16:00 The role of CVR in the fuel inspection at Temelin NPP, M. Mikloš, NRI Řež, Czech Republic
16:00 – 16:30 Verification of the fissile material in spent fuel assemblies of the Paks NPP, Z. Hlavathy, Institute of Isotopes, Hungarian Academy of Sciences, Hungary
16:30 – 17:00 The pool-side inspection of post-irradiation fuel assembly in Qinshan NPP, S. Wang, Qinshan Nuclear Power Company Ltd., China
18:00 Wine and cheese party
Tuesday May 24, 2011

Session Hot laboratories’ experience and capacity (Overviews)

Session chairs: A. Leenaers (SCK\CEN) and M. Wade (Merrick Company)

09:00 – 09:30 IAEA Address, A. Bychkov, Deputy Director General, Head of Department of Nuclear Energy, IAEA

09:30 – 10:00 The role of a UK post irradiation examination facility in the treatment and disposal of problematic and poorly characterized nuclear fuels, J.D Wright, NNL Sellafield, UK

10:00 – 10:30 Current status of the refurbishment of five semi-hot cells at NRI Řež, R. Kopriva, NRI Řež, Czech Republic

10:30 – 11:00 Coffee break

11:00 – 11:30 Hot cell post irradiation examination at JRC-ITU, V. Rondinella, JRC-ITU, EC

11:30 – 12:00 Post irradiation examination of fuel and core structural materials irradiated in FBTR, C.N. Venkiteswaran, IGCAR, India

12:00 – 12:30 Activities and status of PIE for nuclear fuel in NPIC, M. Feng, Nuclear Power Institute of China, China

12:30 – 14:00 Lunch break

Session Hot laboratories’ experience and capacity (Advanced technologies)

Session chairs: D. Bottomley (JRC-ITU) and P. Thijssen (NRG)

14:00 – 14:30 Post irradiation examination capabilities at the Idaho National Laboratory (INL), [Presentation was a movie], A.B. Robinson, INL, USA

14:30 – 15:00 In cell mechanistic fuel failure examination system (MFFES), A.B. Robinson, INL, USA

15:00 – 15:30 Installation of a scanning electron microscope in an alpha tight hot cell, J.A. Vreeling, NRG, Netherlands

15:30 – 16:00 Coffee break

16:00 – 16:30 First results and lessons learned from the HFEF containment box upgrade, A.B. Robinson, INL, USA

16:30 – 17:00 Development and design considerations for a suite of new post irradiation examination hot-cell to be constructed at McMaster University, J. Luxat, McMaster University, Canada

Wednesday May 25, 2011

09:00 – 16:00 Technical visit to the Interim Spent Fuel Storage Facility (ISFSF) in the NPP Jaslovske Bohunice
Thursday May 26, 2011

Session PIE methods and results (Methods)
Session chairs: C. Verdeau (CEA) and D. Gavillet (PSI)

09:00 – 09:30 Eddy current detection of cladding defects due to fuel pellet imperfections, D. Papaioannou, JRC-ITU, EC

09:30 – 10:00 Advanced techniques for the mechanical characterization of irradiated nuclear fuel, W. De Weerd, JRC-ITU, EC

10:00 – 10:30 Non-destructive fission gas release determination of irradiated experimented fuel rods using gamma spectrometry, H. Jenssen, OECD Halden Reactor Project, Norway

10:30 – 11:00 Coffee break

11:00 – 11:30 Post-irradiation examination of the 5–75 MWd/kgU burnup VVER fuel rods by the pulsed eddy current method, S.S. Sagalov, SCC-RIAR, Russian Federation

11:30 – 12:00 Capability and features of the diffraction of backscatter electrons methods for reactor materials investigation, Y. Goncharenko, SCC-RIAR, Russian Federation

12:00 – 13:30 Lunch break

Session PIE methods and results (Results)
Session chairs: J.Y Blanc (CEA) and Y. Goncharenko (SCC-RIAR)

13:30 – 14:00 Defective fuel examination using coulometric titration and analytical electron microscopy at Chalk River laboratories, Z. He, AECL, Canada

14:00 – 14:30 Post irradiation examination of thoria-plutonia mixed oxide fuel in Indian hot cells, J.L. Singh, BARC, India

14:30 – 15:00 Destructive examination of experimental CANDU fuel elements irradiated in TRIGA-SSR reactor, S.I. Ionescu, INR Pitesti, Romania

15:00 – 15:30 The main results of investigation of modified dispersion LEU U-Mo fuel tested in the MIR reactor, V.V. Iakovlev, SCC-RIAR, Russian Federation

15:30 – 16:00 Coffee break

16:00 – 16:30 Examination of an irradiated fuel pin segment by laser scanning profilometry, gamma spectrometry and neutron radiography, H. Wiese, PSI, Switzerland

16:30 - 17:00 Post irradiation examination of the fuel rods operated in WWER-1000 mixed cores, M.V. Tretyakov, NSC KIPT, Ukraine

17:00 - 17:30 The development of xenon diffusivity measurement for irradiated ceramic fuels with low burnup, H.-m. Kim, KAERI, Republic of Korea
Friday May 27, 2011

Session *Irradiated fuel and radwaste management*

Session chairs: A. Bevilacqua (IAEA) and P. Marty (CEA)

09:00 – 09:30 Estimation of hydrogen production rates from radiolysable material in contact with various irradiated fuels, D. Bottomley, JRC-ITU, EC

09:30 – 10:00 CEA strategy for civil spent fuels, J.-Y. Blanc, CEA, France

10:00 – 10:30 BEFAST and SPAR from 1981 to present: Thirty years of spent fuel behaviour, performance and research, A. Bevilacqua, IAEA

10:30 – 11:00 *Coffee break*

11:00 – 11:30 Development of a set-up for the detection of failed fuels in TAPS BWR spent fuels storage bay, J.L. Singh, BARC, India

11:30 – 12:00 Establishment of the disassembling technique of the driver fuel assembly irradiated in JOYO, S. Ichikawa, JAEA, Japan

12:00 – 12:30 Re-assembling procedure of the fuel assemblies for the nuclear power ship "Mutsu", H. Matsui, JAEA, Japan

12:30 – 13:30 *Lunch break*

Closing session

13:30 – 15:00 Chair summaries

15:00 – 15:30 Closing statements

Posters

The HOTLAB cask: update, A.J.G. Leenaers, SCK•CEN HOTLAB, Belgium

Status of the joint IAEA HOTLAB post irradiation examination facilities database (PIEDB), A. Aqrawi, IAEA

Solid waste sampling using specific tools in a shielded cell called ALCESTE, A. Le Cocguen, CEA, France

New irradiation device at the BKR, R. Székely, KFKI, Hungary

TNI's activities for the research reactors and laboratories, V. Laloy, AREVA TN International, France

Determination of hydrides in an irradiated tube section after mechanical testing, R. Zubler, PSI, Switzerland

Main business areas of GNS (Gesellschaft für Nuklear-Service mbH), A. Jussofie, GNS, Germany