2nd EC/ISOE WORKSHOP on OCCUPATIONAL EXPOSURE MANAGEMENT AT NPPS

Tarragona, Spain,
5-7 April 2000

PROGRAMME and REGISTRATION FORM

Organized by

EUROPEAN COMMISSION
DIRECTORATE-GENERAL XI

EUROPEAN TECHNICAL CENTRE
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Sponsored by

IAEA

After the success of the Malmö Workshop in 1998, the European Commission Directorate-General for the Environment, Nuclear Safety and Civil Protection and the CEPN (the ISOE European Technical Centre) are jointly organising the Second EC / ISOE Workshop on Occupational Exposure Management at Nuclear Power Plants. This workshop is targeted to radiation protection professionals (radiological protection managers and senior staff members) from all types of Nuclear Power Plants (NPPs), contractors and Radiological Protection Authorities. The OECD Nuclear Energy Agency and the International Atomic Energy Agency are sponsoring the Workshop.

The workshop will :

- provide a large forum for operators to exchange practical information and experience on occupational exposure issues at NPPs,
- allow vendors to present their recent products,
- give an opportunity to participate in plenary sessions, poster presentations, small group discussions and vendors exhibition.

New challenges for Radiological Protection such as the impact of free-market or the introduction into National Regulations of the European Safety Standards, will be addressed during both plenary sessions and work in groups. Special attention will be given to the work in small groups which has given during the first Workshop an opportunity for very fruitful international exchanges.

We will be glad to welcome the three "awarded" presentations from the 1999 North American Symposium and to select the best European presentations that will be presented in 2001 in California.

Such events have proved, both in Europe and in America, that they are an important and efficient channel to improve the implementation of the ALARA principle into NPPs. We are sure that this Workshop will confirm it again.

S. Kaiser
Head of Unit
EC DG XI Radiation Protection

C. Lefaure
Project Leader
ISOE ETC CEPN

PROGRAMME COMMITTEE

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CONFERENCE LANGUAGE

The official language of the Workshop is English but, in order to facilitate a wide participation, oral presentations may be given also in French, German or Spanish and will be simultaneously translated into English.

PROVISIONAL PROGRAMME

Tuesday 4th of April

14:00 Installation of posters and commercial exhibition spaces
15:00 Registration
18:00 Reception Buffet
21:00 End

Wednesday 5th of April

08:00 Latest Registration
08:00 Exhibition Opening
09:00 Conference Opening (EC DGXI - ISOE ETC)

Invited Paper: A. Martin, CSN, Spain
Trends and Challenges for Radiological Protection in NPPs

***Session 1*: New Challenges for Radiological Protection in NPPs**
Chairman: A. Martin (CSN)

Invited Paper: C. Trottier, NRC, USA
The New Performance Indicators in the United States

- Integrating Radiation Safety and Economic Performance through Benchmarking
  Ralph Andersen, Nuclear Energy Institute, USA
- European Commission overview from BSS Implementation within National Regulations
  Jean-Marc Willemenot, European Commission, Luxembourg.
- Free Energy Market: Consequences on Radiation Protection?
  Ann-Christin Hägg, SSI, Sweden.
- Radiological Protection Management and Relationships with Contractors
  Jean-Marc De Guio, Blayais NPP, France.

Session 1: **New Challenges for Radiological Protection in NPPs**
Chairman: S. Morris (British Energy)

- European review of the "on-site" entrance procedure and dosimetric follow-up
  Dr. Binder (MD), Pétrequin, Blain, Framatome, France.
- An overview of the event/incident reporting categorisation used in the majority of UK plants, identifying the links to the relevant UK Legislation
  Colin Warburton, British Energy, United Kingdom.
- The ALARA Approach and related Classical Safety Factors
  Pascal Deboodt, SCK.CEN Mol, Belgium.
- The Information System on Occupational Exposure: Present and Future activities
  Stefan Mundigl, NEA, France / Monica Gustafsson, IAEA, Austria.

13:00-14:30 Lunch

Session 2: **Group Discussions**
Chairman: C. Lefaure (ISOE ETC, CEPN)
Works in Groups (**14:30-16:00**)

16:30-17:30 Report from the Groups in Plenary Session
17:30 Conference closing
18:30 Exhibition closing

Thursday 6th of April

08:30 Exhibition Opening
09:30 Conference Opening

Session 3: **Radiological Protection and Decommissioning**
Chairman: I. Briesen (Obrigheim NPP)

- Radiation Protection Service and ALARA Organisation during Dismantling of Vandellos 1 NPP
  Armada, Ondaro, Ortiz, Rodriguez, Irun, Just, ENRESA, Spain.
- Implementation of the ALARA Approach during the dismantling of Brennilis NPP
  J.C. Houplain (CEA), Y. Desbazeille (EDF/CNEPE), France.

- Experiences on decommissioning a Magnox power station
  Keith Spooner, Berkeley NPP, United Kingdom.
- Procedures, Techniques and Results of the decommissioning of Würgassen NPP
  Helmut Sander, Würgassen NPP, Germany.
- Materials management process in the decommissioning of Vandellos 1 NPP
  Armada, Garcia, Rodriguez, Rodriguez, Ondaro, Lozano, ENRESA, Spain.
- New strategies for the assessment of achieving the release criteria for building structures of NPPs with in-situ gamma spectrometry
  Lothar Hummel, B. Sitte, TÜV Süddeutschland, Germany.
- Dismantling of irradiated fuel elements hot cell
  Ondaro, Rodriguez, Lozano, Gonzalez, Sastre, Garcia, ENRESA, Spain.

13:00-14:30 Lunch

Session 4: Large Tasks
Chairman: S. Mundigl (OECD-NEA)

- ALARA principal and dose management during large scale backfitting at Borssele NPP
  Leurs, Kamping, Borssele NPP, the Netherlands.
- ALARA Approach on the reactor lower internal recovery service of Qinshan unit 1
  Meijing, Hongming, Jianqi, Zhongyu, Qinshan NPP, China.
- A Steam Generator Replacement at Beznau NPP: Radiation Protection Measures for Occupational Dose Reduction
  H. Fenz, Beznau NPP, Switzerland.

Session 5: Operational Radiation Protection
Chairman: M. Gustafsson (IAEA)

- Remote radiological monitoring with the CARE system
  Richard Warnock, San Onofre NPP, USA.
  1999 Best Awarded Paper at the Orlando, USA Symposium

- Advantages and Limitations of Electronic Devices for Primary Occupational Dosimetry
  Ortega, Institut de Tècniques Energètiques - Universitat Politècnica de Catalunya, Spain.
- Dose index: a factor to establish the radiation source term in NPP outages
  Gonzalez Tardiu, Asco NPP, Spain.
- Health physics experience from exchange of reactor water level indication system in RPV from Management perspective
  Mats Hjelm, Oskarshamn NPP, Sweden.
- The improvement of the equipment of PWR reactor vessels inspection and its influence on reduction of dose associated with these projects
  Gonzalez, Novalvos, Serrano, Wilke, Perez, Tecnatom, Spain.
- ALARA Implementation to reduce Insulators' Exposures (to be confirmed)
  EDF NPP, France.

Session 6: **Personal Contamination Monitoring and Management**
Chairman: Y. Garcier (EDF)

- New policies for body contamination monitoring at Tihange NPP
  Jean Fourez, C. Thielemans, Tihange NPP, Belgium.
- Regulatory views on Internal Exposure(s) Management at Swedish Nuclear Power Plants
  Peter Hofvander, SSI, Sweden.
- Whole Body Contamination control at EDF site / DI 82
  Gérard Cordier, Fessenheim NPP, France.
- Health Physics problems of power operation with failed fuel
  Alan Orchard, Sizewell B NPP, United Kingdom.
- Radiation Protection Experience with Alpha-nuclides
  Walter Hackel, VAK NPP, Germany.

18:45 Conference closing
19:00 Exhibition closing
21:00 Conference Dinner

Friday 7th of April

08:30	Exhibition Opening
09:30	Conference Opening

Session 7: **Dose Rate Reduction through Chemistry and Decontamination**

- Higher than expected dose rates for refueling outage
  Fletcher Wilson, Catawba NPP, USA.
  1999 Best Awarded Paper at the Orlando, USA Symposium
- Experience with Zinc injection in the Obrigheim NPP
  Ingolf Briesen, Obrigheim NPP, Germany.
- Project NordZink - a Zinc Injection Demonstration Campaign in the Swedish Barsbäck-2 NPP
  Lars Håkansson, Klas Lundgren, Barsebäck NPP, Sweden.
- Chemical decontamination of the recirculation loops of Santa Maria de Garoña NPP
  Rafael Coello Iparraguierre, Santa Maria de Garoña NPP, Spain.
- Fuel decontamination - practical experience from plant application
  Krister Egner, Göran Granath, Ringhals NPP / Van der Burg, ABB Atom, Sweden.
- Plant experiences of system decontamination at OKG NPP, from the aspects of reactor water chemistry and health physics perspectives
  Monica Mattsen, Oskarshamn NPP, Sweden.
- Laguna Verde dose reduction program
  Sergio Zorrilla, Laguna Verde NPP, Mexico.
  1999 Best Awarded Paper at the Orlando, USA Symposium

12:30	Exhibition closing
12:30-14:00	Lunch
14:00	Best Papers Awards
14:15	Bus Departure for the Visit of the Vandellos NPP
18:00	Bus Return to the Hotel or to the Barcelona Airport

POSTERS (Last Call)

A Poster Exhibition will take place simultaneously with the Workshop conferences. It remains possible to propose your contributions until the end of January 2000.

A short paper should illustrate the poster. It will be published in the Proceedings.

AUTHORS

Authors will be individually informed by the Programme Committee on the details concerning their writing papers. The papers must be received by the 3rd of March 2000

COMMERCIAL EXHIBITION

A Commercial Exhibition will take place simultaneously with the Workshop conferences. Some exhibition spaces are still available and registrations are accepted until the end of March 2000.

The price for a 10 sq.meter exhibition space is 8500 FF.
This cost includes the commercial booth renting and the registration fees for one participant to the workshop itself.

INFORMATION

Please, contact the Organizing Committee:

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