

President of the Conference:

L. Reyes, USA

Conference Secretariat:

Scientific Secretary: D. Lange, IAEA

Conference Organizers: M. Solarik-Leahy, IAEA

J. Zellinger, IAEA

Secretarial Support: N. Mzee, IAEA

Location of the Conference:

International Atomic Energy Agency

Vienna International Centre (VIC)

Building C, 4th floor

IAEA Boardroom

Wagramer Strasse 5

1400 Vienna, Austria

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Working Language: English

Resolutions: No resolutions may be submitted for consideration on any subject; no votes will be taken.

TIMETABLE

Tuesday, 29 November 2005

15:00 – 17:00 Registration

Wednesday, 30 November 2005

08:00 Registration
09:30 – 10:20 Opening Session
10:15 – 11:00 Coffee Break
11:00 – 12:30 Opening Session (continued)
12:30 – 14:00 Lunch Break
14:00 – 15:30 Topic No.1:
How best to learn from and share operational safety experience and manage changes during all life cycle phases?
15:30 – 16:30 Coffee Break and Poster Viewing Session
16:30 – 17:30 Discussion
18:00 Reception

Thursday, 1 December 2005

09:00 – 10:30 Topic No.2:
How best to learn from and share experiences on regulatory management systems and to harmonize regulatory approaches?
10:30 – 11:00 Coffee Break
11:00 – 12:00 Topic No.2 (continued)
12:00 – 13:00 Discussion
13:00 – 14:00 Lunch Break
14:00 – 15:30 Topic No.3: How best to achieve and ensure the safety of extended operations?
15:30 – 16:00 Coffee Break and Poster Viewing Session
16:00---17:00 Topic No.3 (continued)
17:00---18:00 Discussion

Friday, 2 December 2005

09:00 – 10:30 Topic No. 4:
How best to ensure that a global regime of operating experiences is reflected into the design, construction, commissioning and operation of new and evolutionary reactors?
10:30 – 11:00 Coffee Break
11:00 – 11:30 Topic No. 4 (continued)
11:30 – 12:30 Discussions
12:30---13:00 Closing Presentations

Wednesday, 30 November 2005

08:00	Registration	14:00–17:30	<u>Topical Session 1:</u>
09:30–10:00	<u>Opening Session</u> Chairperson: K. Brockman, IAEA		How Best to Learn from and Share Operational Safety Experience and Manage Changes During all Life Cycle Phases?
09:30	Opening address: T. Taniguchi, IAEA Deputy Director General, Head of the Department of Nuclear Safety and Security		Chairperson: C. Waker, UK Rapporteur: G. Jones, IAEA
09:50	Conference President's address: L. Reyes, USA Executive Director for Operations, United States Nuclear Regulatory Commission Keynote addresses:		N. Redman, UK Continuous Process Improvement (CPI) J. M. Francisco Diaz, Brazil Integrated Peer Evaluations M. Lipar, IAEA Operational Safety Experience F. Perramon, IAEA Operational Experience for Extended Plant Operation M.J. Ross-Lee, USA Preparation and Response to Hurricanes
10:00	J. Laaksonen, Finland It is time for true use of Operating Experience: Safety enhancement by removal of disclosed risks	15:30	<i>Coffee Break</i>
10:15	<i>Coffee Break</i>	16:30	Discussion
	Keynote addresses:	17:30	<i>Adjourn</i>
11:00	L. Mampaey, WANO Nuclear Safety - fundamental to the Nuclear Renaissance.	18:00	<i>Reception and Poster Viewing Session</i>
11:15	P.B. Lyons, USA Improvement to the US Nuclear Regulatory Commission's Operating Experience Programme		
11:30	A. Lacoste, France Twenty Years experience using IAEA Safety Services		
11:45	F. Banal, Germany A Single Aviation Safety System in Europe		
12:00	T. Tanaka, France International Exchange on Operational Experience - NEA Perspective		
12:15	Y. Zhao, China The Progress and the Programme of the Nuclear Regulations Aligning with the Development of Nuclear Industry in China		
12:30–14:00	<i>Lunch Break</i>		

Thursday, 1 December 2005

9:00-13:00

Topical Session 2

How Best to Learn from and Share Experiences on Regulatory Management Systems and to Harmonize Regulatory Approaches?

Chairperson: U. Schmocker, Switzerland
Rapporteur: G. Philip, IAEA

D. Drabova, Czech Republic

Operational Safety – Ways to Harmonization of Regulatory Approach

Y.S. Eun, Korea, Republic of

Applications of IAEA Safety Standards in Korea

M. Virgilio, USA

Managing to Outcomes

M. Ziakova, Slovakia

Building of the Nuclear Regulatory System in the Slovak Republic

10:30–11:00

Coffee Break

C. Waker, UK

Benchmarking of the UK's Regulatory Assessment Guidance

K. Abe, Japan

Towards more Balanced, Harmonized and Transparent Regulatory System

Discussion

12:00

13:00–14:00

Lunch Break

14:00–18:00

Topical Session 3

How Best to Achieve and Ensure the Safety of Extended Operations?

Chairpersons: F. Gillespie, USA
Rapporteur: E. Weinstein, IAEA

M. El-Shanawany, IAEA

Risk informed assessment of plant ageing and life extension issues

J. Kovacs, Hungary

How to Ensure the Safety of Extended Operations: Practice and Experience of Paks NPP

K. Talbot, Canada

Leadership for Extended Operation

H. Noda, Japan

Activities of Japan Nuclear Technology Institute

R. Havel, IAEA

Safety Aspects of long Term Operation

15:30–16:00

Coffee Break

16:00

B. Fourest, France

EDF Lifetime Management of Safety Class Nuclear Components

N. Sorokin, Russian Federation

Lifetime Extension of Russian NPPs

17:00

Discussion

18:00

Adjourn

Friday, 2 December 2005

09:00-14:30

Topical Session 4

How Best to Ensure that a Global Regime of Operating Experiences is Reflected into the Safety Aspects of Design, Construction, Commissioning and Operation of New and Evolutionary Reactors?

Chairpersons: P. Tiippana, Finland
Rapporteur: T. Mazour, IAEA

A. Rastas, Finland

Operating Experiences Reflected in the New Nuclear Power Plant Construction in Finland

J. Sandberg, Finland

Olkiluoto 3 EPR Safety Aspects

S. Lau, China

Managing Experience Dilution

10:30

Coffee Break

11:00

I. Facer, IAEA

Considering global operating experience in the design of and infrastructure for advanced nuclear power plants

11:30

Discussion

12:30

Closing Presentations

13:00

Closing of the Conference

LIST OF CONTRIBUTED PAPERS/POSTERS

1. Ergonomics as an Aid Tool to Identify and Analyse Factors that can Affect the Operational Performance of Nuclear Power Plants
(IAEA-CN-133/1)
I.J. Luquetti do Santos, Paulo V.R. Carvalho
2. Acknowledge-Centred Paradigm for Operations and Design
(IAEA-CN-133/2)
C. Perin
3. Irradiation Services for Nuclear Fuel and Materials Testing
(IAEA-CN-133/3)
M.M. Preda, C. Patticu
4. Safety Performance Indicators used by the Russian Safety Regulatory Authority in its Practical Activities on Nuclear Power Plant Safety Regulation
(IAEA-CN-133/4)
A.L. Khazanov
5. Basic Requirements for Ensuring the Safety on NPP Extended Operations (How best to ensure the safety of extended operations)
(IAEA-CN-133/5)
P. Zaytsev
6. Practice of Safety Regulation of Russian Nuclear Research Facilities
(IAEA-CN-133/6)
A.I. Sapozhnikov
7. Safety and Security Synergy Management in Supporting the Success of Reactor Operation of Indonesia Nuclear Reactors
(IAEA-CN-133/7)
T. Taryo, A. Hanafiah
8. The Use of Operational Experience Feedback for Regulation Setting the Process at a Regional Level
(IAEA-CN-133/8)
Y.R. Mamani-Alegria
9. Operation Experience Lesson Learned from IRS-Reports in Germany
(IAEA-CN-133/9)
M. Maqua, N. Wetzel
10. Study on the Operational Safety Performance Indicator of Nuclear Power Plants in China
(IAEA-CN-133/10)
S. Zhou

11. Analyses of Power Rise Transient in KAPS-1 and Power Co-Efficient Evaluation
(IAEA-CN-133/11)
B. Singh, R. Srivenkatsan, A.N. Kumar, V. Parikh
12. Operational Safety Aspects during Refurbishment of Research Reactor Cirus and Subsequent Full Power Operation
(IAEA-CN-133/12)
R.C. Sharma, S.K. Agarwal
13. Regulatory System for Control of Nuclear Facilities in Bangladesh
(IAEA-CN-133/13)
A. S. Mollah
14. The Efforts of the Beznau Nuclear Power Plant in Order to Achieve the Safety of extended Operation
(IAEA-CN-133/14)
R. Müller
15. Evaluation, Planning and Strategies on Assuring the Capabilities for Management of Radioactive Waste from Research Reactors and Small Nuclear Facilities Decommissioning
(IAEA-CN-133/15)
F. Dragolic, Gh Rotarescu, C.N. Turcano, Gh Dogaru, I. Paunica
16. Operational and Materials Aspects of Aging Management
(IAEA-CN-133/16)
J. Muscara, J.P. Vora, C.E. Moyer
17. Regulators Experiences in Licensing and Inspection of Dry Cask Storage Facilities
(IAEA-CN-133/17)
S. Baggett, E.W. Brach
18. Use of Reactor Operating Experience at the United States Nuclear Regulatory Commission
(IAEA-CN-133/18)
I. Jung, BBB. Rini
19. Measures Aimed at Enhancing Safe Operation of the Nigeria Research Reactor-1 (NIRR-1)
(IAEA-CN-133/19)
G.I. Balogun, S.A. Jonah, I.M. Umar
20. Preparation status for Continuous Operation of Kori Unit 1 NPP in Korea
(IAEA-CN-133/20)
Cheul-Hee Choi
21. Operational Safety Improvement in OPR 1000
(IAEA-CN-133/21)
Young-Eek Jung
22. Status of Life Management for Kori Unit 1 in Korea
(IAEA-CN-133/22)
D.G. Ahn
23. Operational Safety Performance Characteristics of Ghana Research Reactor-1
(IAEA-CN-133/23)
J.K. Gbadago, EEE.H.K. Akaho, B.T. Makuu, S.A. Sampong
24. Development of Regulatory Guidance on Safety Reviews of Nuclear Power Plants in Germany
(IAEA-CN-133/24)
B. Rehs, T. Frohmel, R. Gortz, H. Berg
25. Quality Management, Security Assurance and Operation Safety in the Analysis Isotopic Laboratory CNESTEN Morocco
(IAEA-CN-133/25)
N. Safsaf, M. Ibn Majah, H. Marah
26. The Licensing Process of the design Modifications of Cernavoda 2 NPP Resulting from the Operating Experience of CANDU Plants
(IAEA-CN-133/26)
L. Goicea
27. Analysis of the IEA-R1 Reactor Start-up Procedures (An Application of the HazOp method)
(IAEA-CN-133/27)
M.E.L. Sauer, J.M. de Oliveira Neto
28. How to ensure the Safety of Extended Operations: Practice and Experience of Paks NPP
(IAEA-CN-133/28)
J. Kovac
29. Regulatory Interventions Necessitated by Non-conservative Operator Decisions
(IAEA-CN-133/29)
D. Ojha, S.K. Chande, S.K. Sharma
30. The regulatory Responsibilities Relating to Operational Safety in Thailand
(IAEA-CN-133/30)
K. Tiyapun
31. Improvement of Self-Assessment Activities at the Hungarian Atomic Energy Authority Nuclear Safety Directorate Utilizing the International Impulses
(IAEA-CN-133/31)
J. Silye

32. Coupling Safety Methods in the Determination of the Operational safety Performance Indicators for a Research Reactor
(IAEA-CN-133/32)
D. Merrouche
33. Operational Safety Performance in Nuclear Installations of the Republic of Belarus
(IAEA-CN-133/33)
O.B. Gurko, A.A. Tukhto
34. Core Safety Increase and the Mir Reactor Operating Life Prolongation
(IAEA-CN-133/34)
A.L. Izhutov
35. A management System for Nuclear Regulators: the Swiss Approach
(IAEA-CN-133/35)
U. Schmocker, J.J.C. Veyre
36. Regulation System on the Modification of Research Reactor in Indonesia
(IAEA-CN-133/36)
A.M. Haifani
37. Regulatory Aspects of Olkiluoto 3 Nuclear power Plant (EPR-1600)
(IAEA-CN-133/37)
J.Sandberg, P. Tiippana
38. Safety and Security Nuclear Materials and Radioactive Sources – The Nigerian Experience
(IAEA-CN-133/38)
N.A .Bello S.B. Elegba

PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants in IAEA scientific conferences and symposia. In addition, the IAEA itself may invite a limited number of scientists as invited speakers. Only participants designated or invited in this way are entitled to present papers and take part in the discussions.

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Proceedings

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AGENCY PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

▪ *Safety Series*

- **Safety Series No.110**; The Safety of Nuclear Installations (Safety Fundamentals)
STI/PUB/938, 1993
- **Safety Series No.115**; International Basic Safety Standards for Protection Against Ionizing Radiation and for the Safety of Radiation Sources
STI/PUB/996, 1996
- **Safety Series No.120**; Radiation Protection and the Safety of Radiation Sources: (Safety Fundamentals)
STI/PUB/1000, 1996

▪ *Safety Standards Series*

- **NS-R-1**; Safety of Nuclear Power Plants: Design Requirements
STI/PUB/1099, 2000
- **NS-R-2**; Safety of Nuclear Power Plants: Operation (Safety Requirements)
STI/PUB/1096, 2000
- **NS-G-1.1**; Software for Computer Based Systems Important to Safety in Nuclear Power Plants (Safety Guide)
STI/PUB/1095, 2000
- **NS-G-2.1**; Fire Safety in the Operation of Nuclear Power Plants (Safety Guide)
STI/PUB/1091, 2000
- **NS-G-2.2**; Operational Limits and Conditions and Operating Procedures for Nuclear Power Plants (Safety Guide)
STI/PUB/1100, 2000
- **NS-G-2.3**; Modifications to Nuclear Power Plants (Safety Guide)
STI/PUB/1111, 2001
- **NS-G-2.4**; The Operating Organization for Nuclear Power Plants (Safety Guide)
STI/PUB/1115, 2002
- **NS-G-2.5**; Core Management and Fuel Handling for Nuclear Power Plants (Safety Guide)
STI/PUB/1125, 2002
- **NS-G-2.6**; Maintenance, Surveillance and In-service Inspection in Nuclear Power Plants (Safety Guide)
STI/PUB/1136, 2002
- **NS-G-2.7**; Radiation Protection and Radioactive Waste Management in the Operation of Nuclear Power Plants (Safety Guide)
STI/PUB/1138, 2002

- **NS-G-2.8**; Recruitment, Qualification and Training of Personnel for Nuclear Power Plants (Safety Guide)
STI/PUB/1140, 2002
- **NS-G-2.9**; Commissioning for Nuclear Power Plants (Safety Guide)
STI/PUB/1152, 2003
- **NS-G-2-10**; Periodic Safety Review of Nuclear Power Plants (Safety Guide)
STI/PUB/1157, 2003
- **50-C/SG-Q**; Quality Assurance for Safety in Nuclear Power Plants and other Nuclear Installations (Code and Safety Guides Q1-Q14)
STI/PUB/1016, 2001
- **RS-G-1.1**; Occupational Radiation Protection (Safety Guide)
STI/PUB/1081, 1999
- **RS-G-1.2**; Assessment of Occupational Exposure Due to Intakes of Radionuclides (Safety Guide)
STI/PUB/1077, 1999
- **RS-G-1.3**; Assessment of Occupational Exposure Due to External Sources of Radiation (Safety Guide)
STI/PUB/1076, 1999
- **RS-G-1.4**; Building Competence in Radiation Protection and the Safe Use of Radiation Sources (Safety Guide)
STI/PUB/1108, 2001
- **GS-R-2**; Preparedness and Response for a Nuclear or Radiological Emergency (Safety Requirements)
STI/PUB/1133, 2002

▪ *INSAG Series*

- **INSAG-4**; Safety Culture
STI/PUB/882, 1991
- **INSAG-10**; Defence in Depth in Nuclear Safety
STI/PUB/1013, 1996
- **INSAG-12**; Basic Safety Principles for Nuclear Power Plants, 75-INSAG-3 Rev.1
STI/PUB/1082, 1999
- **INSAG-13**; Management of Operational Safety in Nuclear Power Plants
STI/PUB/1083, 1999
- **INSAG-14**; Safe Management of the Operating Lifetimes of Nuclear Power Plants
STI/PUB/1085, 1999
- **INSAG-15**; Key Practical Issues In Strengthening Safety Culture
STI/PUB/1137, 2002

- **INSAG-16**; Maintaining Knowledge, Training and Infrastructure for Research and Development in Nuclear Safety
STI/PUB/1179, 2003
- **INSAG-17**; Independence in Regulatory Decision Making

STI/PUB/1172, 2003
- **INSAG-18**; Managing Change in the Nuclear Industry: The Effects on Safety
STI/PUB/1173, 2003
- **INSAG-19**; Maintaining the Design Integrity of Nuclear Installations Throughout Their Operating Life
STI/PUB/1178, 2003
- **Safety Report Series**
 - **Safety Report Series No.11**; Developing Safety Culture in Nuclear Activities Practical Suggestions to Assist Progress
STI/PUB/1064, 1998
 - **Safety Report Series No.21**; Optimization of Radiation Protection in the Control of Occupational Exposure
STI/PUB/1118, 2002
- **TECDOC Series**
 - **TECDOC-489**; Safety Aspects of Water Chemistry in Light Water Reactors
IAEA-TECDOC-489, 1989
 - **TECDOC-744**; OSART Guidelines 1994 Edition
IAEA-TECDOC-744, 1994
 - **TECDOC-1141**; Operational Safety Performance Indicators for Nuclear Power Plants
IAEA-TECDOC-1141, 2000
 - **TECDOC-1321**; Self-assessment of safety culture in nuclear installations
IAEA-TECDOC-1321, 2002
 - **TECDOC-1329**; Safety culture in nuclear installations - Guidance for use in the enhancement of safety culture
IAEA-TECDOC-1329, 2002
 - **TECDOC 1446** OSART mission highlights 2001-2003
IAEA-TECDOC-1446, 2005
 - **TECDOC 1458** Effective corrective actions to enhance operational safety of nuclear installations
IAEA-TECDOC-1458, 2005
 - **TECDOC-955**; Generic Assessment Procedures for Determining Protective Actions during a Reactor Accident
IAEA-TECDOC-955, 1997
- **Services Series**
 - **Services series No.10**; PROSPER Guidelines
IAEA-SVS-10, 2003,
 - **Services series No.12**; OSART Guidelines
IAEA-SVS-12, 2005,
- **Emergency Preparedness and Response**
 - **EPR-METHOD-2003**; Method for developing arrangements for response to a nuclear or radiological emergency, (Updating IAEA-TECDOC-953)
EPR-METHOD (2003), 2003
 - **EPR-ENATOM-2002**; Emergency Notification and Assistance Technical Operations Manual
EPR-ENATOM (2004),
2004F:\Publication\SafetyReport11.pdf

**FORTHCOMING SCIENTIFIC MEETINGS SCHEDULED BY
THE IAEA**

NOTES

2006

International Conference on Effective Nuclear Regulatory
Systems
27 February – 3 March, Moscow, Russian Federation

International Conference on Management of Spent Fuel from
Nuclear Power Reactors
19-23 June, Vienna, Austria

Scientific Forum
19-20 September, Vienna, Austria

International Safeguards Symposium on Addressing Verification
Challenges
16-20 October, Vienna, Austria

21st IAEA Fusion Energy Conference
16-21 October, Chengdu, China

International Conference on Quality Assurance and New
Techniques in Radiation Medicine
13-15 November, Vienna, Austria

International Conference on Lessons Learned from
Decommissioning of Nuclear Facilities and the Safe Termination
of Nuclear Activities
11-15 December, Athens, Greece

For information on forthcoming scientific meetings, please consult
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