



ISOE Programme -Recent Activities-

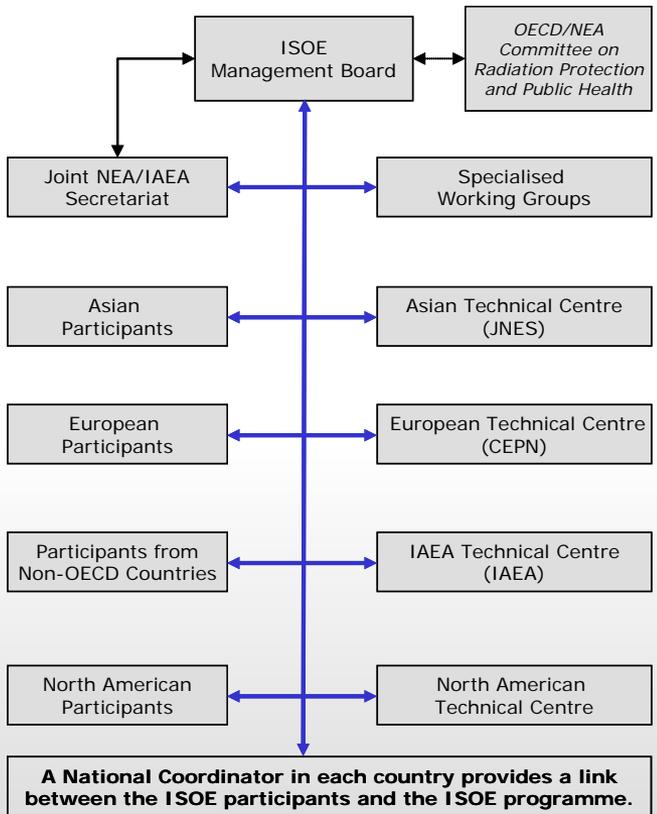
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OECD Nuclear Energy Agency
Radiation Protection and
Radioactive Waste Management Division

2013 ISOE International Symposium
27 – 28 August 2013, Tokyo

Agenda

- Status of participation
- ISOE Technical Centers Performance Indicators
- Pilot project-electronic reporting
- Expert Groups – (reports/workshop)

Structure



Database

TCs leads
ETC, global validator
NEA IT

WGDA

- Task Team on Decommissioning
- Expert Group on Water Chemistry and Source-Term Management
- Expert Group on ORP in Severe Accident Management and Post-Accident Recovery

Network

ETC leads
Main communication platform

- RP Library
- Experience reports
- RP Management
- Plant information
- RP Forum

- Each group has specific mandate
- Product oriented
- Time limited

ISOE (20th anniversary)

- ISOE MB meeting; 14-15 November 2012
- MB Meeting; managerial issues and details of programme implementation
- Latest Bureau meeting: April 2013
- New Chair- Mr. Willie HARRIS (US)
- Vice-Chair- Dr. Jorg KAULARD (Germany), *resigned*
- Postpone the election for Chair-elect



ISOE Terms and Conditions (Status of Renewal)

- ISOE Terms and Conditions: NEA/CRPPH/ISOE(2012)1/REV1 (*showing latest status*) – *Annex-1 has been updated in July 2013*
 - New RA participant: Office of Nuclear Regulation (an agency of the HSE) is a new regulatory authority from the UK
 - Withdrawal: JAVYS (Slovak Rep) on March 3,2013
 - Japan: The new regulatory body of Japan (Nuclear Regulation Authority- NRA) has been invited to the ISOE Programme.

ISOE Terms and Conditions (Status of Renewal)

- **Operating reactors (21)**

Armenia, Brazil, Bulgaria, Canada (*only Bruce & Hydro Quebec*), China, Czech Rep., Finland, France, Germany, Hungary, Japan, Romania, Slovak Rep. (*Slovenske Electrame*), Slovenia, South Africa, Spain, Sweden, Switzerland, the Netherlands, UK and US (*still missing utilities*)

- **Definitely shutdown reactors (7)**

Bulgaria, France, Italy, Japan, Lithuania, Sweden and US

Germany- not agreed on T&Cs

Rest is missing

52 (operating), 10 (decom) Utilities in 25 countries

(273 operating reactors, 30 shutdown reactors)

ISOE Terms and Conditions (Status of Renewal)

- **Regulatory Authorities (17)**

Bulgaria, Canada, China, Czech Rep., Finland, France (only IRSN), Germany, Korea (KINS, MEST removed), Lithuania, the Netherlands, Slovak Rep., Slovenia (only SRPA), Spain, Sweden, Switzerland, UK and the US

No response:

Armenia, Belgium, Brazil, Japan, Hungary, Italy, Mexico, Pakistan, Russian Federation, Romania, South Africa and Ukraine

- MB representation will be reconsidered in November

ISOE TC PIs

- ISOE TCs have crucial role for the sustainable management of the Programme.
- Effectiveness should be evaluated with generally accepted mechanisms and performance reviews.

Article 3 (d) of the Terms and Conditions of the ISOE, which states that *“the Centers shall be so organized as to ensure that all tasks as directed by the ISOE Management Board, or through the ISOE Bureau, can be undertaken in a satisfactory manner, and shall meet periodically to coordinate these efforts”*.

ISOE TC PIs - Objectives

- Guidelines for performance monitoring and evaluation of technical centers
 - to evaluate the performance,
 - to highlight the short-comings,
 - to include the regional expectations from technical centers (specific for each technical center, regionally translated and timely reporting)
 - criteria should be established (written procedure- generic).

ISOE TC PIs

PI1 - ISOE DATABASE MANAGEMENT

1.1 Data collection and entry to the database

- Details of data collection, data entry or any specific role in TC's respective region by indicating;
 - Total number of units with reactor type in the region (operating and decom)
 - Date - ALL data has been submitted to TC

1.2 Technical quality and validity of data submitted

- Quality Management System (only in the first collection period)
- Data validation , Quality control of data collected, and on-line and off-line storage and retrieval services

ISOE TC PIs

PI2 - CONTRIBUTION AND FINALIZATION OF REPORTS

- Contribution to chapter on occupational dose studies, trend and feedback
- Info an evaluation of occupational dose trend in the region
- Info on specific chapter, as agreed by the WGDA
- Info on symposia organized during the reporting period
- Info on benchmarking visits organized during the reporting period
- Joint Secretariat compilation and publication of the report
- Input for the ISOE News and content
- Input for the ISOE Website Newsletter and content

ISOE TC PIs

PI3 - ISOE NETWORK WEBSITE MANAGEMENT AND TC INPUT

ETC acts as the administrator and coordinator of the ISOE Network website.

ETC

- Describe requested or implemented website modifications (for example, new menu, category of documents...), management of user accounts, etc.

Other TCs

- Provide information on inputs for the Network and information on the respective regional website.

ISOE TC PIs

PI4 - OTHER TOPICS

Details for the relevant activities

- **Participation to the meetings**
(including Bureau, MB, WGDA and EGs, etc)
- **Nomination to expert groups and follow-up**
- **Organization of the ISOE International / Regional ALARA symposiums**
- **ISOE organized benchmarking visits**
- **New documents and reports**
(including technical reports, information sheets, information exchange activities, etc.)
- **Any other issue not listed above**

ISOE TC PIs

- **Weighting**
 - **PI1:** ISOE Database management (40 %)
 - **PI2:** Contribution and finalization of annual report (30%)
 - **PI3:** Network website management and TC input (15 %)
 - **PI4:** Other topics 15 %

ISOE TC PIs, MB approval

- **Deliverable schedule**
 - 1 month in advance of the MB meeting to the NEA Secretariat
 - Preparation of consolidated version (Sec)
 - Review and assessment of Bureau to be submitted to the MB
- **Implementation**
 - Management Board agreed on implementation for 2013
 - TCs are asked to submit their first complete report to the NEA Secretariat at the beginning of October 2013

US Pilot Project: Electronic Reporting to ISOE

- Electronic Reporting Module for US Utilities
 - data entry and submission to ISOE program from US utilities
 - use existing US utility systems to collate ISOE data into a central data file
- Goals of US Pilot Project
 - Reduce manual entry and inefficiencies in current process
 - Increase US utility participation in ISOE program by decreasing burden to submit data
 - Increase use of database to highlight other ISOE products useful in the exchange of operational experience
- Effective collaboration between between NEA, CEPN, ORAU, PTI Systems, Duke Energy, and US NRC

Process and Completion

- Combined efforts of NEA IT developers, ORAU, PTI Systems, and Duke Energy
 - PTI Systems and ORAU worked with NEA IT developers on file structure for ISOEDAT
 - PTI Systems worked with Duke Energy Corporate IT department on data mapping for file integration into ISOEDAT
 - NEA IT developers requested beta test of electronic reporting to ISOEDAT
- ‘ISOE Module’ tested by Duke Energy, PTI Systems, and NEA IT developers
 - February/March 2012
- Duke Energy electronically submitted 2011 data
 - April/May 2012
 - Data electronically submitted for all 7 units

Adoption

WGDA: Adoption of the module- technically feasible

ISOE MB agreed

- On the adoption of ISOE electronic reporting
- WGDA requested to develop implementation plan
 - Plan should include processes, completion timeline, and resources (cost estimates and Technical Center responsibilities)
 - Provide updates to MB and seeks approval of specific steps/processes

Expert Group activities

- Expert Group on Primary Water Chemistry and Source-Term Management (**EGWC**)
 - Established in November 2010 (5 meetings were organized)
 - Mandate was extended until November 2013
 - Report is still under preparation, last met on 12 July - EPRI Source-Term Workshop (8-11 July 2013)
 - PHWRs, Canadian input after April 2013 WGDA meeting
 - Previous version, limited inputs and significant differences of PHWR water chemistry (and some sub-sections dealing BWRs)
 - Planned meetings
 - 23-24 September 2013 (1,5 day) in conjunction with the EDF/EPRI International Workshop on Reactor Cavity Decontamination at NPPs (25-26 September 2013) in Paris

EGWC- Draft report (v8)

- Strategies and Techniques
Radiation field generation, material issues, available chemicals methods, remediation of contamination during outages
- Radiation Field Measurement Techniques
Dose rate measurement techniques, system & component decontamination
- Measurement Locations and Indices
For all reactor types
- Radiation Protection Outcomes
Strategies and plant specific results
- Annexes
Typical primary Materials for PWRs
Strategy for Implementing an Optimized CZT programme
ISOE Program
Membership

Expert Group activities

- Expert Group on Occupational Radiation protection in Severe Accident Management and Post-Accident Recovery (**EG-SAM**)
 - Established in May 2011
 - MB resolution (supported by the CRPPH)
 - Finalization of **interim** report by November 2013 (assessment of radiation protection management and organisation; radiation protection training and exercises related to severe accident management; facility configuration and readiness; worker protection; radioactive materials, contamination controls and logistics; and lessons learned)
 - International ISOE Workshop (in 2014)
 - Next meeting
 - After symposium – Review of Interim report (version 9) and in November

EGSAM- Draft report (v9)

- Radiation Protection Management and Organisation
- Radiation Protection Training and Exercises related to Severe Accident Management
- Facility Configuration and Readiness
- Worker Protection
- Radioactive Materials, Contamination Controls and Logistics
- Key Lessons Learned from past accidents

International ISOE Workshop on ORP in Severe Accident Management

- Co-organized by Nuclear Energy Institute (NEI)
- 17-18 June 2014, Washington DC

**Proposal for
the ISOE MB**

Workshop Secretariat	Organizing Committee
Mr. Halil Burçin OKYAR	Mr. Willie HARRIS (Chair) (ISOE Chair, Exelon)
OECD Nuclear Energy Agency	Mr. Wataru MIZUMACHI (Co-Chair) (EG-SAM Chair)
12, boulevard des Iles	Mrs. Ellen P. ANDERSON (NEI)
92130 - Issy-les-Moulineaux	Dr. Salah DJEFFAL (CNSC)
FRANCE	Mr. Jukka SOVIJARVI (STUK)
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E-mail: halilburcin.okyar@oecd.org	Ms. Lena JENTJENS (VGB)
	Mrs. Caroline SCHIEBER (CEPN, ETC)
	Dr. David MILLER (NATC)
	Dr. Yoshihisa HAYASHIDA (JNES, ATC)
	Mr. Jizeng MA (IAEA)
	Dr. Rong-Huei Hou (NEA)

- Workshop key topics/objectives, format (planned for August meeting)
- Report will be finalized by the workshop conclusions

ISOE Rule

- **Establishment of a new ISOE rule for the vendors in ISOE Symposia**

- The Bureau agreement (indicated in the SR)

Due to ethical reasons and in order to be neutral to all industrial actors, vendors should be excluded for any sort of awards during any type of ISOE activity, including symposiums.

For clarity and transparency, it was also decided to have this statement in all ISOE symposium announcements and symposium leaflets (preferably on the cover).

new ISOE logo



**Not agreed,
Maintain current logo**

Status on Fukushima Accident

For the latest information concerning the status of Fukushima NPP Accident, see the following websites:

- Japan Nuclear and Industrial Safety Agency
- Japan Atomic Industrial Forum
- Tokyo Electric Power Company
- Japan Ministry of Education, Culture, Sports, Science & Technology
- International Atomic Energy Agency

Welcome to the ISOE Website



The Information System on Occupational Exposure (ISOE) System was created in 1992 to provide a framework worldwide to share dose reduction information, operational experience and information to improve safety.

ISOE is jointly sponsored by the OECD Nuclear Energy Agency and the International Atomic Energy Agency.

Next ISOE Meetings

- ▶ **ISOE Bureau**
22 April 2013 (morning), OECD, Paris, France
19 November 2013 (afternoon), OECD, Paris, France
- ▶ **Working Group on Data Analysis**
22-23 April 2013, OECD, Paris, France
18-19 November 2013, OECD, Paris, France
- ▶ **Expert Group on Severe Accident Management**
24-25 April 2013, OECD, Paris, France
21-22 November 2013, OECD, Paris, France
- ▶ **ISOE Management Board**
20-21 November 2013, OECD, Paris, France

ISOE Members Login

Hi H. Burçin OKYAR,

- ▶ To request an account
- ▶ Forgotten password?
- ▶ Your Feedback
- ▶ Join ISOE

What's new?

- ▶ Documents
- ▶ RP Forum
- ▶ ISOE Website

	Registered
Authority	103
Utility	712
EC	1
Technical Centres	18
Secretariat	4
TOTAL	861

ISOE Meetings

- **NOVEMBER 2013 Meetings**

- **18-19 November:** WGDA meeting (for 1,5 day), start at 9:00 am in the first day and ends at 12:00 in the second day
- **19 November:** ISOE Extended Bureau meeting, starts at 13:00 (half day)
- **20-21 November:** ISOE MB meeting, start at 9:00 am in the first day and ends at 12:00 in the second day
- **21 November:** ISOE Extended Bureau meeting, starts at 12:30 and ends at 13:45
- **21-22 November:** EGSAM meeting (for 1,5 day), start at 14:00 pm in the first day and ends at 15:00 in the second day



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<http://www.oecd-nea.org/jointproj/iso.html>

<http://www.isoe-network.net>