

**NUCLEAR ENERGY AGENCY
RADIOACTIVE WASTE MANAGEMENT COMMITTEE**

Integration Group for the Safety Case (IGSC)

Summary Record of the 15th Meeting of the IGSC

Final version

**OECD Conference Centre, Paris, France.
10-11 October 2013**

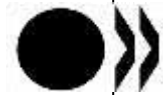
This 15th Summary Record of the IGSC has been approved by the members at their 16th plenary meeting on 7-9 October 2014.

For any further information, please contact Gloria.Kwong (gloria.kwong@oecd.org)

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INTEGRATION GROUP FOR THE SAFETY CASE (IGSC)

Summary Record of the 15th Meeting

OECD Conference Centre, Paris, October 10-11, 2013

The 15th meeting of the Integration Group for the Safety Case (IGSC) took place at the OECD Conference Centre in Paris on October 10-11, 2013. This summary record reviews the main items and decisions. All presentations and the list of participants are posted on the IGSC internal webpage - <http://www.oecd-nea.org/download/igsc/igsc-15/>.

1.0 Opening Remarks

1.1 Welcome Note

K-J. Röhlig (TUC) welcomed the participants and introduced new delegates, substituting/observing participants. In particular, the Chair welcomed Russia as a new IGSC member. A list of participants is available on the IGSC-15 webpage: http://www.oecd-nea.org/download/igsc/igsc-15/documents/IGSC-15__LoP_.pdf.

1.2 Objectives of IGSC-15

- The IGSC accepted the objectives of the IGSC-15. As stated by the Chair, the objectives of IGSC-15 are as follows:
 - a symposium summary;
 - on-going IGSC activities;
 - new direction(s)/orientation of the IGSC Programme of Work

1.3 Approval of IGSC-14 Summary Record and outcomes

- The summary record of IGSC-14 was approved.

1.4 Results of survey on structure of annual meeting

- G. Kwong presented the results of a survey on the structure of the annual meetings, conducted at IGSC-14. Key conclusions drawn from the results will be implemented in future meeting planning. More information of these conclusions can be found in the presentation as posted at http://www.oecd-nea.org/download/igsc/igsc-15/documents/4_14_KWONG_Surveyresults_Kwong-Copy.pdf.

1.5 Approval of agenda

- The agenda of IGSC-15 was approved with no changes.

2.0 Safety Case Symposium

2.1 Review of experience gained in the 2013 Symposium

- The IGSC held a brief roundtable discussion of how participants viewed the 2013 Symposium. Key messages collected are as follows:
 - Well-organized symposium with valuable, high quality presentations;
 - Linkage between the views of implementers and regulators provided useful insight of the structure and key components of safety cases;
 - Presentation from a non-radioactive waste community brings in new perspectives of repository development;
 - New aspects recently initiated within IGSC (e.g. operational safety, knowledge management) are crucial elements for repository development;
 - Discussions held in the symposium also shed light on important issues such as “effective communication of safety cases to stakeholders, i.e. further socio-technical communications and exchanges”, “knowledge management and transfer”, “passive safety and oversight”, etc;
 - The symposium provided a good exposure and learning opportunity for new/junior safety professionals;
 - Participants complimented the agency for their flexibility and capability to cope with unforeseen changes.

Other constructive messages include:

- The contents/structures of some presentations can be improved. More precise instructions should be provided to guide presenters in preparing their talks. Similarly, session rapporteurs should be guided to report overall key messages of their corresponding sessions, instead of summarizing the content of presentations;
- Make possible more discussion time to allow more in-depth discussion to be carried out;
- Make available short abstracts prior to the symposium which will help participants to better prepare for the presentations and result with more fruitful discussions.
- The list of participants and all presentations have been placed on a restricted webpage: <http://www.oecd-nea.org/download/igsc-2013-symposium/>.

3.0 RWMC Activities and NEA Overview

3.1 RWMC-46 and NEA Activities

- M. Siemann presented the key decisions of the RWMC-46 and recent activities of the RWMC.

3.2 ICRP and related activities

- C. Pescatore presented the ICRP recommendations, its related guidance and a recently developed NEA/ ICRP flyer.

Decision:

- The ICRP flyer will be posted on the IGSC webpage.

3.3 RWMC-RF

- C. Pescatore presented the key decisions made by the RF in their latest meeting as well as the upcoming work activities.

3.4 FSC

- It was agreed that the IGSC will further explore collaboration with the FSC in areas of common interest. Potential areas include, but not limited to, monitoring, indicators, communicating the safety case to other stakeholders.
- An *ad hoc* group has been formed with members including: U. Noseck (GRS), W. Bollingerfehr (DBE), M. Cuñado (ENRESA), J. Weber (BGR), and K.-J. Röhlig (TUC). The IGSC recognized the difficulties in communicating certain scientific/technical information (e.g. indicators) with non-technical stakeholders and suggested using graphical matters to illustrate scientific concepts.

3.5 TDB Project

- J. Perrone (NEA) presented the current status of the TDB Project. She reported that the Salt Club is proposing cooperation between the TDB Project and the THEREDA Project to build a Joint International Pitzer Database. More details of this cooperation will be discussed at the next TDB Management Board meeting, currently scheduled for November 19-20, 2013.

4.0 IGSC

4.1 Salt Club

- J. Mönig (GRS) reported the on-going activities and recent accomplishments of the Salt Club. The Salt Club will seek an extension of project duration from the RWMC until 2016. The IGSC will approve the revised mandate and the 2014-2016 Programme of Work in IGSC-16;
- The recent US government office shutdown may cause potential delays to the review of the natural analogue report. To ensure the report will be published in 2013, A. Poley has agreed to assist in reviewing the report. It is anticipated that the final report will be provided to NEA by the end of October, 2013.

4.2 Clay Club

- H. Aoki reported the key outcomes of the 23rd meeting of the Clay Club, took place in Horonobe, Japan. Current activities of the Clay Club were also presented to the IGSC.

4.3 FEP Database

- R. Shaw (Quintessa) updated the IGSC regarding the current status and timescales of the FEP database development. The IGSC agreed to check the revised International

FEP list for its completeness and consistency;

- To continue the development of this web-based database, G. Kwong will work out new budget for the next phase, following the OECD policy on voluntary contribution, and formal request will be sent out to IGSC members for voluntary contributions.

4.4 Gas Migration

- M. Capouet proposed to the IGSC to extend the FORGE rapporteur summary, using it as the base of the IGSC position paper on gas migration. In revising the position paper, the task group is also seeking short paragraphs with updated information/references from the IGSC members on their strategies used to treat gas (the previous draft IGSC position paper can be taken as a starting point);
- The task group plans to revise the position paper in 2014. The final paper will be approved by the IGSC at IGSC-16.

Decision:

- The IGSC agreed to use the FORGE rapporteur summary as the base to revise the IGSC position paper on gas migration;
- The IGSC agreed to provide their input by November 15, 2013

4.5 Operational Safety

- S. Voinis (ANDRA) provided an update of current activities/key meeting outcomes of the Expert Group on Operational Safety (EGOS). The NEA Secretariat is in the process of creating the webpages, both public and restricted, for this project. The IGSC also suggested addressing radiation protection within the EGOS future work.

4.6 Repository MetaData Management

- The IGSC noted the launching of the project on management metadata of repository – RepMet, which was presented by Z. Nagy (PURAM) and supported by the NEA Secretariat.

4.7 Monitoring

- C. Pescatore presented the results on monitoring, including insights from the RK&M Project as well as related work of the Regulators' Forum. He invited the IGSC to take a proactive role in the area of monitoring;
- The IGSC agreed to review a technical report on monitoring, prepared by the RK&M Project.
- A non-technical report, also an outcome of the RK&M Project discussing stakeholder expectations on monitoring, will be provided to the IGSC by the Secretariat for information.

Decision:

- The IGSC agreed to provide input on path forward/new directions (~ 1 paragraph) to the CG of how to further address monitoring in future IGSC's work.

4.8 RK&M Project Update

- The IGSC received an update of the current status of the RK&M Project, presented by C. Pescatore.

4.9 Scenarios

Decisions:

- Two IGSC members, representing regulatory authorities, agreed to provide their responses to the sections of the Scenario questionnaire relevant for regulatory authorities by Oct 31, 2013. Responses will be analyzed and results will be documented in a report, to be issued by year end;
- A workshop to further discuss scenario development is currently planned for October 2014.

4.10 Organizational Issues

- H. Umeki (JAEA) summarized the pilot study previously carried out by JAEA and indicated the difficulties in seeking volunteers to test the approach. He then proposed to the IGSC to form a working group, to be led by H. Makino and M. Capouet, to focus on management procedures/tools that can be used to characterize organizational issues of both implementers and regulators.

Decision:

- The IGSC agreed to indicate their willingness to participate in the working group, by December 31, 2013.

4.11 Confidence in a safety case

- K. Röhlig summarized the background, previous work carried out and the diverged views between the task group and the IGSC Core group, on the topic of "achieving confidence in a safety case". The group agreed that "confidence", in this case, is referring to the confidence of the safety case developers/authors.

Decision:

- The IGSC agreed to develop a discussion paper, which will be used as the basis for future development of a "confidence" flyer. The IGSC also agreed to provide their confidence statements stated in their safety cases for the development of this discussion paper.

4.12 Safety Case Flyer

- The IGSC confirmed their support of developing a safety case flyer and agreed to

provide comments of the draft flyer by December 31, 2013.

4.13 Topic for 2014 Topical Session

- 3 topics, namely (i) seismic analysis and consequence; (ii) in-depth treatment of low probability events including human intrusion; and (iii) perception of knowledge, were proposed;
- It was also determined that the topic of “perception of knowledge” may be considered as the topic for 2015 topical session, pending potential collaboration work with the FSC.

Decisions:

- The IGSC has decided to combine suggestions (i) and (ii) and to evaluate “in-depth treatment of low probability events including seismic events, for both operational and post-closure periods”;
- A working group, including A. Van Luik (US DOE), N. Hunt (NWMO), H. Makino (JAEA), and W. Bollingerfehr (DBE Tech), has been appointed to initiate planning of the 2014 topical session.

4.14 IGSC Outreach and Visibility

- The IGSC gave the NEA Secretariat the mandate to improve visibility of the IGSC, particularly core work of the IGSC, which also includes enhancing the design/quality of the dedicated webpages.

5.0 IGSC future activities

5.1 IGSC Programme of Work

Decisions:

- The IGSC asked the secretariat to update the PoW according to the IGSC-15 decisions and to initiate 2 activities: (i) evaluate recent/ongoing activities on feasibility, demonstration and QA of other international organizations (in particular EC projects); and (ii) analyze current IGSC Programme of Work and existing deliverables to identify gaps that may exist in relationship to developing safety cases and key safety case components. In cases where such gaps exist, the IGSC will later explore next steps pending what other activities are being performed in other organisations [note: the WPDD approach may be followed in this evaluation].

6.0 Country Safety Case Updates

- Country updates on recent national developments relevant to safety case development are available on the IGSC-15 <http://www.oecd-nea.org/download/igsc/igsc-15/>.

7.0 Other Business

7.1 European Pilot Study

- F. Bernier (FANC) presented the current status of the European Pilot Study. It is anticipated that the report will incorporate the comments received in early 2014 and a workshop will be held in 2015 to address all received comments. The final report will be formally endorsed by regulatory bodies in 2015.

8.0 Chairman's meeting summary

- K. Röhlig summarized key issues discussed and major decisions and actions in his presentation.
- Available at: http://www.oecd-nea.org/download/igsc/igsc-15/documents/29_8_Rohlig_IGSC-15agendaitem8summaryRoehlig.pdf.

9.0 Next meeting

- Next IGSC meeting will be held on October 7-9, 2014, in Issy-les-Moulineaux.