



IGSC Safety Case Brochure

FINAL COMMENT OPPORTUNITY

IGSC AD-HOC GROUP and CONSULTANTS

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5th IGSC 15 17 oct 03

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STATUS/SCHEDULE

- **Ad-hoc Group approved at last IGSC meeting has completed a draft it recommends to the full IGSC for approval:**
 - **IGSC members should read for national policy implications, if any**
 - **Errors should be corrected**
 - **Editing suggestions are also welcome**
- **Comments should be emailed to Sylvie Voinis for routing to the ad-hoc group and consultants**
 - **Comments are due by end November**
- **Goal is submittal to RWMC at its March 2004 meeting for publication approval**

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BROCHURE DESCRIPTION

FOREWORD:

- Sets the safety case into its decision-making contexts**
- Gives the provenance of the document in terms of international agency (IAEA, EC, NEA) level work, and**
- Describes work in the RWMC and its subcommittees, such as the IPAG group, peer reviews, and other work supporting the document**

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BROCHURE DESCRIPTION

EXECUTIVE SUMMARY:

- Just under 2.5 pages summarize content of entire document, do not mimic main document structure:**
 - Nature and purpose of the safety case***
 - Elements for documenting the safety case***
 - General considerations when presenting the safety case***

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BROCHURE DESCRIPTION

- MAIN BODY OF BROCHURE (28 pp.):**
 - 1. Introduction (2 pp.)**
 - 2. The safety case and considerations for its presentation (7 pp.)**
 - 3. The safety strategy (7 pp.)**
 - 5. (?) The assessment basis (4 pp.)**
 - 6. Evidence, analyses and arguments and their synthesis in a safety case (5 pp.)**
 - 7. Conclusions (2 pp.)**
 - References (1 p.)**

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SAFETY CASE DEFINED

- IAEA Safety Standard for Geological Disposal is cited:**
 - “The safety case is an integration of arguments and evidence that describe, quantify and substantiate the safety, and the level of confidence in the safety, of the geological disposal facility.”
- The Brochure’s definition is a paraphrase of that definition:**
 - . . . “a formal compilation of evidence, analyses and arguments that quantify and substantiate a claim that the repository is safe.” This definition is augmented with:
 - “The safety case may be seen as analogous, in some respects, to a legal case, in which multiple lines of evidence are produced, and for which the quality of each line of evidence must be evaluated to allow a judgement to be reached on the adequacy of the case to support a positive outcome of the decision at hand.”

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WHEN TO DO A SAFETY CASE

- EXAMPLE OF IMPLIED COMMITMENT:**
 - Safety cases are to be compiled to support decisions
 - Regulatory decisions require the most complete safety cases
 - Internal decisions should be supported by safety cases, but these may be less comprehensive

- QUESTION: Is this demarcation statement in the document at the right level, or does its current wording imply that more work is needed than is currently practiced, or planned for, in member state organizations?**

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SAFETY CASE CONTENT

- ANOTHER POTENTIAL COMMITMENT:**
- Safety content is described, itemized
- IGSC members need to evaluate:**
 - Do the content descriptions match what is done or planned for in member state organizations?
 - Is there an implied commitment for implementers to expand safety cases by the official publication of the brochure?
 - The NEA is not a national regulator, regulators are in charge of defining the safety case they need, need to approve of brochure

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POTENTIAL CHANGES

- AD-HOC GROUP AGREES ON CONTENT, BUT:**
 - May recommend changes in document organisation**
 - May recommend adding graphic illustration**
 - Welcomes IGSC recommendations in both areas**
 - Welcomes IGSC comments of all sorts**
 - Urges careful IGSC member organisation review: document may create or enhance national expectations, and thus lead to new commitments**