

Technical Criteria Plenary Closing

27 September 2012



IAEA

International Atomic Energy Agency

Working Group Rationale

- Provide information to allow for a quick reference that may provide a starting point for developing future human intrusion analyses.
- The group intends to support the overall objective by developing detailed classes and scenarios.

Working Group Objectives

- Provide an overview of the following in the form of a draft report:
 - Technical information on potential future human intrusions in radioactive waste disposal systems.
 - Identify for each intrusion scenario:
 - A technical description of the intrusion method,
 - An overview of the potential impacts, and
 - An overview of the potential consequences.
 - Support development of the “Position Paper on Future Human Actions at Disposal Sites.”

Working Group One Members

- **Veli-Matti Ammala** (Finland)
- **Ingo Boettcher** (Germany)
- **Olivier Destin** (Belgium)
- **Weiming Chen** (China)
- **Saber Hassanlou** (Iran)
- **Chris Markley** (USA)
- **Taha Massuod** (Libya)
- **Giorgio Mingrone** (Italy)
- **Hossein Sadeghloo** (Iran)

Proposed Scope of Work

- Identification of categories of potential scenarios of future human intrusion of radioactive waste disposal systems.
 - Discuss potential methods of human intrusion,
 - Identify technical information needs,
 - Compare to ISAM list of scenarios, and
 - Revise categories as necessary.

Proposed Scope of Work

- Identification of the technical criteria (details) related to the intrusion methods.
 - Technical details related to the intrusion method,
 - Impact on the environment and disposal system, and
 - Potential consequences to a hypothetical receptor.
- Identification of potential sources of information and illustrations of approaches used.
 - Provide examples of international approaches for a give scenario.
- Identification of potential integration issues.

Terms of Reference

- Identification and Description of Human Intrusion Scenarios.
- For each Scenario:
 - Technical aspects of the intrusion event,
 - Description of environmental impacts, and
 - Description of consequence to the receptor.
- Identification of international examples.

Scenarios Identified

- Drilling (Near Surface Disposal)
 - Water resource
 - Mineral exploration
- Excavation (Near Surface Disposal)
 - Residential
 - Roadway
- Deep Geologic Disposal
 - Drilling
 - Mining
 - Solution Mining

Project Planning

- Format and content of the deliverable have been identified.
- Section developers have been identified for the deliverable chapters and scenarios.
- A tentative schedule has been identified.

Tentative Schedule

- Draft inputs from the WG 1 members
 - December 2012
- Consolidated draft report for WG1 member review
 - February 2013
- Revised draft report for WG2/3 lead review
 - July 2013
- Revised draft report for next Plenary
 - September 2013

WG1 Deliverables

- Terms of Reference resulting from this plenary.
- Notes on the working group meetings.
- Draft report for the next Plenary.

Roles and Responsibilities

- Review relevant international documents related to human intrusion (all)
- Review and identify international examples of human intrusion that may be appropriate for incorporation (all)
- Proactively share information resources with the working group members (all)
- Coordinate with working groups 2 and 3 as necessary (CM)