Working Group One: Scenarios

Plenary Closing

08 September 2013



Working Group Rationale

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



Working Group Objectives

- Provide an overview of the following in the form of a draft report:
 - Identify stylized human intrusion scenarios to be considered with distinction between near surface and deep geologic disposal
 - Potential impacts of a scenario on the disposal system and environment, and exposure scenarios
 - Provide a method to modify the stylized scenarios for additional purposes
- Support development of the HIDRA Report



Working Group One Members

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- Reinaldo Gil Castillo (Cuba)
- Bogdan Craciunoiu (Romania)
- Alexandru Rodna (Romania)
- Steven Dhlomo (South Africa)
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Refine Section Focus

Revisiting organization of report section

 Enhancing focus on human intrusion scenarios

 Providing guidance on tailoring generic human intrusion scenario to specific human intrusion scenario



Scope of Work

- Identification of categories of potential scenarios of future human intrusion actions of radioactive waste disposal systems.
 - Identify stylized human intrusion scenarios
 - Identify method for scenario development



Scenarios Identified

- Near-Surface Disposal Facility
 - Drilling
 - Excavation (building)
 - Excavation (roadway)
- Deep Geologic Disposal Facility
 - Drilling
 - Mining
 - Non-conventional Mining



Accomplishment: Methodology

- Methodology
 - Disposal System Type
 - System Description*
 - Intrusion Events
 - Impacts*
 - Indicators
 - Transport
 - Exposure

*Potential for measures incorporation



Key Overlaps with Report Sections

- Discussion of probability (WG2)
- Discussion of system description (WG3)
- Role of human intrusion in the safety case (HIDRA)
 - Clarify HI is one component of the safety case



Tentative Schedule

- Draft HIDRA report to the WG1 Members
 - Late November 2013
- Comments on draft HIDRA report from WG1 Members to WG1 Chair
 - February 2014
- Revised Scenarios section to WG1 Members
 - April 2014
- Comments on Scenarios section from WG1 Members to WG1 Chair
 - February 2014
- Core group meeting
 - September 2014



WG1 Deliverable

Draft report [TBD]



Roles and Responsibilities

- Review and provide comments on report section (all)
- Proactively share information resources with the working group members (all)
- Coordinate with working groups 2 and 3 as necessary (CM)



Possible Terms for Glossary

- Human intrusion
- Future human action
- Likelihood
- Probability
- Disposal system
- Disposal facility

