

TM-47040

Second Technical Meeting of the International Project on Human Intrusion in the Context of Disposal of Radioactive Waste (HIDRA)

- WG2 Societal Factors : Status update and plan forward

05 December 2014



IAEA

International Atomic Energy Agency

Content

- 4 questions from Yumiko
 - Are we ready to finalize HIDRA phase 1
 - What would we want to be included in a table for the National examples
 - Recommendation for WASCC and RASCC
 - Suggestions for a Phase 2 HIDRA
- Status of Chapter 8
- Work plan forwards

Are we ready to finish HIDRA 1

Yes !

National examples

- Should be used but:
- We suggest in a follow up project , e.g. HIDRA 2 to allow for more work on the National examples. The national examples could den be used in several work groups, working with e.g.:
 - One group could use the national examples for testing HIDRA methodology
 - One group could wok with setting up a table, examples of thing that cold be included in such a table are:
 - ✓ Near surface/Deep
 - ✓ Existing regulations for HI
 - ✓ Is there an active control period after closure, Who is then responsible (regulator/operator)
 - ✓ Timing for HI, reasoning for this time
 - ✓ What actions are taken for knowledge preservation
 - ✓ Communication
 - ✓ Which stakeholders has been engaged,
 - ✓ How (e.g. public hearings etc.) and when

Recommendation for WASCC and RASCC

In the existing documents siting guide 1995 it is stated that a site should be located away from known natural resources. Some types of natural resources may however turn out to exist over regional scale areas. For such largely distributed resources (e.g. geothermal energy, salt), HIDRA members think it can be accepted that a facility is sited in that area as the likelihood of drilling through the DF to reach the resource remains low, the DF's footprint being be much lower than the extent of the resource. If you develop these safety standards further please be careful when deriving siting criteria to not exclude such sites.

Already ok in SSG 14

Key messages the brochure

- Important to explain HI and communicate the purpose of HI and the cautious assumptions that can be used.
- Early involvement of stakeholders in communication of HI aspects and throughout the life cycle of the DF
- Knowledge of the facility is best kept if local public is involved and understands that it is in their interest to preserve knowledge
- Importance of continuing the discussions in international fora on HI (e.g. HIDRA 2, 3)

Suggestions for a follow up project (Phase 2 of HIDRA)

1. Use national examples to
 - make table of the examples
 - Use some example (with additional information from that country) to see if the HI scenario development methodology HIDRA suggest applies
2. FHA – Discuss the types of potential human activities at or near the site which could affect the containment and the isolation capability of the disposal system (SSG-14). For example, actions in the vicinity of the DF which might modify groundwater flow
3. Discussion about what are known natural resources
4. Timing of loss of control, how to see at the difference between near surface facilities and deep geological facilities. What's the reasoning behind the timing in different countries.

Status update in WG 2 societal aspects

- Based on comments in the draft prepared for the plenary and on new comments during the week we have had fruitful discussions and worked on editing text in the chapter in all three sections covering our main objectives
 - Communication
 - Societal aspects in generation of H scenarios
 - Knowledge preservation

Plan for the future

- “All intended areas” are covered and discussed in the Chapter, remaining work concern text (grammar, wording etc.)
 - Combine all the edited text parts of Chapter 8 into one and make a cleaned up version (Eva, 10 December)
 - Read the Chapter within the WG and comment (all WG2- members, 7 January)
 - Combine text suggestions into one draft . Cross checking with other Chapters on terminology (Eva, 16 January)
 - Recirculate within WG to comment if everyone agree on new material (all WG2-members, 30 January)
 - Edit the draft after potential new comments from WG members (Eva, 7 February)
 - Circulate with other core group members....