

NEA visit at Äspö HRL December 14th, 2011

Participants:

SSM: Jinsong Liu
NEA IRT: Claudio Pescatore, Fabrice Boissier, Juan-Carlos Mayor

SKB: Johan Andersson, Mats Ohlsson, Peter Wikberg, Patrik Sellin, Esther Jonsson, Rolf Christiansson, Lars-Erik Johannesson, Erik Thurner

Underground :
Guide: Anna Vuori
Pär Graham?

Organizer practical aspects: Malin Gustafsson

Programme:

Session 1

8.30 – 8.40 Welcome and introduction (Mats Ohlsson)

- Round the table presentation

8.40 – 9.30 Overall presentation of Äspö HRL (Mats Ohlsson/Erik Thurner)

- Purpose and history
- Layout of the facility
- Short overview of Experiments (point out the ones we plan to show)
- Extension of the Äspö HRL
- Relation NFP and Repository technology/model of delivery

9.30 – 12.00 Underground visit incl the Bentonite laboratory

- Underground (order will be according to location underground)
 - New site of tunnels (extension Äspö) (Mats Ohlsson)
 - LASGIT (Patrik Sellin)
 - Minican (Patrik Sellin)
 - ABM (Patrik Sellin)
 - Prototype repository (Lars-Erik Johannesson)
 - TASS-tunnel incl EDZ (Rolf Christiansson)
 - Deposition machine (Erik Thurner/TDM?)
 - BAPT (Lars-Erik Johannesson/Erik Thurner)
 - CRT (Lars-Erik Johannesson)
- Bentonite laboratory
 - Emplacement equipment of backfill (Esther Jonsson?)
 - Test facility for full-scale test of backfilling (Esther Jonsson)
 - Emplacement equipment of buffer rings and blocks (Erik Thurner/TDM?)

12.00 -13.00 Lunch

Session 2

13.00 – 14.30 Experiments related to SR-Site with focus on NEAs questions (Peter Wikberg/Patrik Sellin)

- Purpose and results from experiments (CRT, ABM, Prototype, TBT, EVA)
- Ongoing work and plans of new experiments (C&C, ABM45)

- Follow-up to NEA Questions on buffer addressed on Tuesday
 - (2) Advantages and disadvantages of increasing the buffer thickness
 - (3) Sealing capacity of the bentonite
 - (4) Buffer erosion and colloid release conditions
 - (5) Comparison of the available buffer materials
 - (6) Performance confirmation of bentonite piping and erosion

14.30 – 14.45 Coffee break

Session 3

14.45 – 15.45 Experiments related to EBS with focus on NEAs questions (Erik Thurner/Esther Jonsson) Purpose and results from experiments

- Ongoing work and plans of new experiments
 - System design buffer
 - System design backfill
 - System design plug
- NEA Questions to answer
 - (1) Feasibility of the canister emplacement operation. Results from tests.

15.45 – 15.55 Summing up/conclusions