

Study on the Procedure of Parameter Setting for Potential Effect of Natural Phenomena on a HLW Disposal System

Makoto Kawamura[1]; Hitoshi Makino[2]; Takao Ohi[1]; Koji Umeda[1]; Tadafumi Niizato[1]; Tsuneari Ishimaru[1]

[1] JAEA; [2] JAEA

<http://www.jaea.go.jp/>

JAEA developed a scenario construction method for the effects on a HLW disposal system condition and performance. This method is composed of the following five steps.

- step 1: Description of potential processes of natural phenomena
- step 2: Description of potential change of geological environment in the perspective of T-H-M-C: Thermal - Hydrological - Mechanical - Geochemical.
- step 3: Typification of scenarios based on similarity of the hang of geological environment.
- step 4: Set up models and parameters for impact analysis.
- step 5: Calculation and assessment

In the last year, we presented methodology of step 1 to 3 using examples of the application to Volcanism and Earthquakes and fault movement. In this time, we show the methodology of the step 4 - the procedure of nuclide transport parameter setting from information of T-H-M-C arraged on the Step 2 and 3.