

Japan Geoscience Union Meeting 2011

(May 22-27 2011 at Makuhari, Chiba, Japan)

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SCG068-02

Room:104

Time:May 22 14:30-14:45

Focast of natural phenomena and safety analysis for safety of geological disposal

Takeshi Ebashi^{1*}, Ryuta Hataya¹, Junichi Goto¹, Manabu Inagaki¹, Katsuhiko Ishiguro¹, Hiroyuki Tsuchi¹

¹NUMO

In an actual disposal facility, different events will interact in a complex manner and will evolve over a long time frame. Accordingly, it will not be straightforward to realize them all in detail in the context of scientifically demonstrating future conditions. Defining of conditions will thus involve simplifying physical and chemical phenomena and checking the conservativeness of this approach in the context of safety assessment, rather than making efforts to pursue strict scientific correctness, to reduce the number of factors to be considered and reduce coupling between these factors.

In this study, based on the above, the relationship between future prediction in site characterization and scenario classification in safety assessment, and scenario development methodology of natural phenomena are illustrated.

Keywords: geological disposal, siting, safety analysis, natural phenomena, future forecast, uncertainty