

SCG084-22

Room: Exhibition hall 7 subroom 1

Time: May 25 16:15-16:30

Study on Validation Procedure of Groundwater Flow System in a Sedimentary Rock Area: Analysis and Comparison

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Japan Atomic Energy Agency has started to investigate a regional groundwater flow system of sedimentary rock in an area in Boso Peninsula of Japan, where the topographic and geological features are relatively simple for mathematical modeling and hydraulic data are available. Groundwater flow on a horizontal 50 km scale is analyzed by using numerical code:3D-SEEP. The analyzed results for current steady conditions show that the groundwater flow is mainly from south-eastern area to north-western area in the direction of dip in the stratum. The analysed results were compared with observation data of pressure data obtained from well. It was indicated that the analysis results was reasonable to explain the regional groundwater flow system from the comparison.

Keywords: groundwater flow, geological disposal, validation