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P4.109 Effect of Initial Condition on Seismic Analysis of the HCCR TBM-Set

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In this paper, effects of initial condition on seismic analysis for the HCCR TBM-set are evaluated using finite element analysis. Because of difficulty to predict when an earthquake occurs during operation, various scenarios are considered in the structural integrity assessment in ITER. To perform the simplified analysis, it is important to understand the effects of initial conditions on the structural analysis for seismic loads. In case of the seismic analysis for the HCCR TBM-set, response spectrum analysis based on modal analysis are performed. In this paper, effects of initial condition on modal analysis and response spectrum analysis with a simple pipe model are investigated and a seismic analysis approach for the HCCR TBM-set is proposed considering initial condition effects.

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