

Seismic Safety Issue for Operation and Lifetime Extension of Nuclear Facilities in Slovakia

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Abstract. Currently, there are 5 nuclear reactors in operation in Slovakia at two locations: Jaslovské Bohunice and Mochovce. At the time of the construction of the first reactors, both locations were assessed as having no increased seismic risk. Nevertheless, since the start of NPP operation several reassessments were made for both sites ensuring that the current site assessment is performed in accordance with the current state-of-the-art knowledge. Consequently, the seismic resistance of all relevant structures, systems, and components was during operation continuously increased. Actual reinforcement for Jaslovské Bohunice NPP is set to peak ground acceleration $PGA=0.344\cdot g$ and for Mochovce NPP to value $PGA=0.15\cdot g$.

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