

Abstract

The objective of this thesis is to compare applications of seismic and geoelectric methods and to state recommendations for their application in future geological prospection, especially application of shallow seismic reflection. Another goal was verification of assumed course of tectonic lines and thickness and character of sedimentary infill, which are important for calculation of seismic hazard by actual standards in context with effort of prolonging licence and also expansion of nuclear power plant Dukovany. When selecting locations for survey there was an effort to confirm the position of the Diendorf-Boskovice zone border and fault zones leading through the zone. The survey was done using multi-electrode electrical resistivity tomography, refraction and reflection seismic.