

Integrated Geophysical Investigations for Selection of NPP Placing Sites

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A technology of geophysical investigations is suggested for selection of NPP placing sites and detailed examination of selected areas. The technology includes: seismic surveying by means of longitudinal and transversal waves; electrical surveying by the methods of resistances and induced polarization; high-precise gravitation and magnetic surveying; penetration logging; radio-isotopic, thermodynamic and petrophysical investigations. The technology provides: tracing of individual rupture dislocations, assessment of their relative activity, jointing degree and water content of rocks in these disturbed zones; study of a geological cross-section to evaluate aqua-physical and physico-mechanical properties of rocks; assessment of protective properties of the unsaturated zone and a build-up of seismic intensity depending on soil conditions.