

The perspective of improving regional planning and predicting of accidents in hydro-energy stations and pipelines from the results of the analysis of geodynamic changes and radon emanation from the satellite and ground geophysical data

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The results of the geophysical analysis of temporary changes of a gravity and magnetic fields of non-tidal type obtained in geodynamic test sites, and their connection with motions earth's crust near to large engineering facilities (hydro-energy station, pipelines) are considered. The results of the interpretation of satellite magnetic measurements which are indicative of a capability of allocation of radon emanation in seismic active zones of USA are resulted. It is show, that the similar speed, observed within the limits of researched test sites, of migration of temporary variations of a gravity field is one from developments of difficult processes connected to acoustic emissions and migration of front of elastic pressure. Recently were published papas indicating effect of periodic loads at change of volumes of a water in artificial reservoirs and vibration of turbines of hydro-power plants (hydro-energy station) on geodynamics ambient earth's crust, in particular on origin of directed seismicity and probable destructions, connected to it, engineering objects. For example, the filing microseism has shown, that the long-range action of sources of vibration of turbines of hydro energy station along a surface of the Earth changes from tens up to a half of thousands of kilometers depending on a structure of underlying rocks, and a depth of a penetration of vibrations changes in range from 1 up to 20 kilometers, depending on that where the wave guide in earth's crust is located. Technical vibration from turbines of Aswan hydro energy station, near to which there is one from of geodynamic test sites, are by weak oscillations creating additional deformations, which can achieve sizes 10^{-10} . Despite of smalls, these additional deformations are radiated constantly during tens years of existence hydro-power station. It is known, that such engineering seismic signals create of additional acceleration in environment on five order more, than at weak natural effects, such as having fl. and having cast.. The analysis of effect of vibration on samples has shown, that at additional vibrations there is a temporary course of the intense condition in samples with a characteristic discontinuous rhythm. Apparently, the similar temporary variations reflecting a temporary course of the intense condition will be exhibited and in a behavior of physical fields connected with change of the intense condition of blocks of the earth's crust. In (Jarkov, 1964) is shown, that the gravimeters fix oscillations, which arise owing to deformations of the Earth, at the expense of shift of weights in it недрах. Besides the imposing of additional vibrations results in a brightly expressed spatial picture of asymmetry of pressure onboard a crack (or fault of the earth's crust). Onboard a crack near to a source of vibration the visibility of a mosaic of pressure decreases on a comparison with distant from a source of vibration by a side of a crack a little.