

## **System research of monitoring facilities of technical diagnostics of natural and building objects in difficult conditions**

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The main maintenance of work is analysis and explanation of experimental methods of complex geophysical researches of lito-dynamic processes; development of rules, algorithms and applied methods of estimation of state and reliability of natural and building objects by method of oscillation diagnostics; development of system methods of choice of basic parameters of monitoring facilities of technical diagnostics (pick-offs, electronic transformers, filter system, etc); appropriate computer programs development, their testing and approbation; exploring the possibility of application of mobile experimental standard of control and measuring apparatus for estimation of probability of risk of emergency situation appearance on natural and building objects in the real-time mode.

As the result of project execution, it is expected to get competitive method and program of monitoring system of technical diagnostics with the use of modern software and hardware: mobile experimental standard of control and measuring apparatus in complex with information control providing for estimation of probability of risk of emergency situation appearance on natural and building objects in the real-time mode.