METHODS OF QUALITY CONTROL OPERATING COMPLEX SYSTEMS

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Increase operational efficiency requirements for complex systems leads to the necessity of solving problems providing high quality information that circulates in the control system.

The purpose of research - the study of methods to increase operational quality control of complex systems.

Efficiency of use - is the degree of implementation capacity of the governing body in order to ensure the implementation of maximum capacity facility management. It depends on the degree of awareness, ie degree to which the governing body of reliable information for making optimal (feasible) solution.

During exercise operational control allowed full reliability controls, and the possible results of control due only to their precision characteristics and actual state of the control object.

Index awareness must be integrated to reflect the character and quality of all information needed for a decision. As an indicator can be used reliability of operational control.

The reliability of operational control - a measure of the degree of objectivity results reflect the true state control of a facility. It can be represented in two of its components: the reliability of these methodological tool reliability.

Articles reliability - a component of authenticity operational controls defined set of attributes object control, information processing method adopted criteria for evaluation of the facility and others.

Materials and methods of research. By increasing the reliability of the information for each of the signs and the number of signs methodical control significantly increases reliability. Thus, it is possible to provide the necessary reliability of the control value of the object in general.

Instrumental reliability - a component reliability control, defined probabilistic properties of the object attributes control algorithm processing view of test results, tochnistnymy characteristics of measuring instruments and others. As the uncertainty related to the value of tolerance meter parameter value increases tool reliability.

The quality of information depends on set of factors, which are defined as characteristics of the object of control and performance facilities and measures used in obtaining and processing information. Thus, the measurement error of means should be relatively sizes admission to reject the values of the controlled parameter from its nominal value is less than three times.

Conclusions

Thus, to achieve the required quality operational controls necessary to plan and carry out a series of methodical steps to build the most rational structure of the process of obtaining the required number of information and comprehensive analysis and synthesis in order to provide high quality elekspluatatsiynoho control.Thus, the reliability of the control system must be much higher reliability for object control, and technical errors of measuring dimensions or less for admission to the controlled setting (not less than three times).