

## Problematic Issues of Managing State Tests of Space Systems and Complexes and Ways of Their Solution

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**Abstract.** An analysis of the management system of state testing of space systems and complexes based on studies of the domestic and foreign experiences in decision support in the management of complex organizational and technical systems is performed. Problematic issues of managing state testing of space systems and complexes, as well as issues of collecting and processing information concerning the testing procedure and results are identified. To mitigate the issues, a scientific and methodological apparatus is proposed, which allows management of state testing in a single consolidated information area. This area is based on a system of information about the procedure and the results of testing. It was determined that in order to improve the quality of the decisions made in the state testing process, it is necessary to account for a promising model of a system for the operations and management of the technical means of the ground-based automated control complex. The proposed solutions of the identified problematic issues will help to improve the reliability of information concerning the procedures and results of state tests of space systems and complexes, along with the efficiency of analyzing information circulating in the state testing management loop. In addition, the efficiency and validity of decision-making during management will be improved and it will result in an improved efficiency of state testing of space systems and complexes.

**Keywords:** state tests, decision making, management of state testing