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**HIERARCHICAL MODEL FOR ALTERNATIVE METHODS COMPARISON OF THE CIVIL PROTECTION ANALYSIS AND INFORMATION SYSTEM OPERATION**

**Problem setting.** The paper raises the problem of making reasonable managerial decisions that is connected with the receiving of timely relevant and reliable information by the head of the management body to carry out their work functions and tasks. The need for doing research into methods of operation of the Civil Protection Analysis and Information System is justified.

**Recent research and publication analysis.** In the previous papers the problematic issues of civil protection in relation to ensuring efficient managerial decision-making, information and analytical support for the managerial decisions adoption, methodical approach to assessing the reliability of the state management system operation in emergency, arranging the process of efficient management of the emergency response, selection of the rational method of interaction in emergency were considered.

**Paper objective.** To develop a comparison model for alternative methods of the Civil Protection Analysis and Information System operation as well as their evaluation methodology.

**Paper main body.** The group of indicators of elemental, system and general-system level has been developed. General-system indicator is integral quality of the Civil Protection Analysis and Information System that reflects the set of properties and their interconnection as well as system ability to achieve stated goals. On the basis of this system of indicators, a hierarchical model for comparing
alternative methods of the Civil Protection Analysis and Information System operation has been built taking into account the method of hierarchy analysis.

The scientific and methodological apparatus used in the developed model covers three levels of indicators for evaluating alternative methods of the Civil Protection Analysis and Information System operation, such as general-system, system and elemental, and is based on the application of the information and software environment “The system of multifunctional information analysis and decision support”.

Conclusions of the research. According to the results of the study, a group of indicators of elemental, system and general-system levels has been developed, and hierarchy along with correlation among them have been discovered. On the basis of the system of indicators, a hierarchical model for alternative methods comparison of the Civil Protection Analysis and Information System operation rested upon the method of hierarchy analysis has been built. Application of the dialogue system of multifunctional information analysis and decision support “Factor” has allowed to develop a method for their estimation as well as a calculation task.

Further step in the course of research is to carry out calculations of the priorities distribution between alternative methods of the Civil Protection Analysis and Information System operation and formulation of conclusions and proposals on the system improvement.