

TERMINAL AND SITUATIONAL PROBLEM TASKS OF INFORMATION SUPPLY FOR HUMAN-OPERATOR DATA PROCESSING FROM INFORMATION-MEASURING SYSTEMS FOR COMPLEX OBJECTS SCADA

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The relevance of the research lies in the fact that the corporate production systems are characterized by a hierarchical structure of the process, multi-level operational and administrative control. In such systems, when the unit is in the boundary modes (in the process of energy-active resources transformation), there is a crisis mode threat. Inadequate methods of situation assessment due to a failure of indicators measuring systems can lead to disorientation operational staff of SCADA, emergency. Similar situations may arise due to incorrect control. Therefore, the development of new information technologies for data selection, data processing and presentation of these data is an urgent task.

The purpose of the article is to consider the methods of scale information systems devices construction used for constructive data classification and decision-making process SCADA operator depending on the cognitive characteristics.

The object of the research is to study the information processes of the physical parameters that represent the state of energy technology units active in working structures and boundary modes of operation, as well as the possibility to represent this data to the operator attention by the display systems.

The subject are the methods and information technology of streams processing and their classification based on the use of regulatory and stochastic scales for measurement in measuring systems. The peculiarities of data perception by SCADA operator to control the current mode and extreme mode in the process of technological production structures are considered.

Novelty of the research is substantiation of the situation mapping model by the operator in the state space. The necessity to carry out the structuring of data for effective perception is suggested to increase the effectiveness of decision-making for the SCADA system.

The described model of situational data display can be applied as the basis for the development of a new type of display systems for SCADA.

Keywords – information, the data, measurement.