

THE RESEARCH ON AUTOMATED SYSTEMS AND PROCESSES APPLICATION IN MILITARY INDUSTRY

P. A. Gorbachev

National Research Tomsk Polytechnic University,

Russia, Tomsk, Lenin Avenue, 30, 634050

E-mail: pag11@tpu.ru

Today automation of technological processes is applied to many areas of production.

It is known that the military potential of the country is determined by the capabilities of the state to maintain and improve the armed forces. Recently, automation has been widely used in military complexes, means of tracking and detection. This is due to the use of automated processes for management command posts, military units and the transfer of information between them, as well as processes for independent detection, identification and target tracking by individual systems and stations.

The article contains the examples of some automated systems related to the military industry, used in battle and to perform the tasks. The article will consider: complex automation equipment (CAE) that carry out the execution of automated control of combat operations; automated control system "Baikal 1-ME", through which management of combat operations of anti-aircraft missile brigades and management of air defense compounds are realized; automated means of communication provided by radio complex "Aqueduct"; automated systems used by the navy and the coastguard that implement an automated command and control system "Lessorub-E", automated management coastal modular operating point 83t611-E.

The research has shown that automated processes are closely linked to the military sector, and by the XXI century there has been a significant improvement in this sector. Such a variety of applications of automated combat systems, automated control of individual combat units, as well as specialized equipment indicates the prospects for their further development, which will contribute to further strengthening of Russian military potential.

REFERENCES

1. The complex of automation command posts of air defense and air force "Universal-1E" [Electronic resource]. - Access mode: <http://raspletin.com/produksiya-i-vidy-deyatelnosti/produksiya-oboronnogo-naznachenija/avtomatizirovannye-sistemy-upravlenija/kompleks-sredstv-avtomatizatsii-komandnyh-punktov-pvo-i-vvs-universal-1e> - 10.03.16.
2. The automated control system "Baikal-1 ME" [Electronic resource]. - Access mode: <http://raspletin.com/produksiya-i-vidy-deyatelnosti/produksiya-oboronnogo-naznachenija/avtomatizirovannye-sistemy-upravlenija/avtomatizirovannaja-sistema-upravlenija-bajkal-1me> - 17.03.16.
3. "Aqueduct" in connection [Electronic resource]. - Access mode: http://old.redstar.ru/2005/10/11_10/7_02.html - 25.03.16.
4. An automated command and control system "lumberjack - E" [Electronic resource]. - Access: <http://concern-agat.ru/produksiya/isbu/avtomatizirovannaya-sistema-boevogo-upravleniya-lesorub-e> - 25.03.16.
5. The coastal modular operational point [electronic resource]. - Access mode: <http://concern-agat.ru/produksiya/isbu/beregovoj-modulnyj-operatsionnyj-punkt-83t611-e> - 30.03.16.