

DEVELOPMENT OF AN AUTOMATED UNMANNED PERIMETER PROTECTION SYSTEM

Suleymanov S.S.

Institute of Geology and Geophysics, Baku, Azerbaijan

Bayramov A.A.

Institute of Control Systems, Baku, Azerbaijan

Abdullayev F.N.

Republican Seismic Survey Center, Baku, Azerbaijan

The most effective method is an automated control, which is carried out remotely. Such control can be carried out around the clock, in any weather, at any area and distance. Here the human factor plays a minimal role, so the probability of error is minimized here [1-3].

This paper presents the developed unified automated unmanned system for remote control of a given territory and access protection. Seismic sensors, acoustic sensors, fuses, video observation blocks, etc. can serve as remote sensor units that are activated by coded radio signals. The advantage of this unmanned system is that it is controlled by coded signals, the frequency and control protocol of which are set by the developers, so this system is safe and not available to a third party [4,5].

The purpose of the report is to present the results of the development, preparation and preliminary laboratory and field tests of the security system working in the telemetry mode. The working principle, management, operation rules, management and telemetry of the security system were explained. Cryptographic coding based on the Neyman algorithm was used to encrypt the telemetry of the security system. During 100 laboratory and field tests of the security robotic system, no violations of the system's operation mode were observed.

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