

THE CONCEPT AND THEORETICAL MODEL OF THE INTEGRATED SYSTEM FOR THE PROTECTION OF CRITICAL INFRASTRUCTURES

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The concept of protection, the same as that of security, is a scientific and practical matter and therefore should be approached in close collaboration with the beneficiary, with complex analysis on stages and testing in the final phases.

In fact the complexity of security and critical infrastructure protection is necessary to develop a new concept of protection which integrates the security and quality issues and to be able to counter the unfortunate event occurrence and ensure swift restoration of their functionality.

Keywords: *critical infrastructure; intelligence; risk matrix; assumed risk; protection strategies; integrated protection system.*

In our view, integrated systems of critical infrastructure protection could be the command and control (C4I2SR)*, which have the basic functions of information collection, transmission and processing, assisting the decision-making act and providing means for protection, security and defense.

The two axioms in the analysis of this area could be the following: failure to ensure a 100% of critical infrastructure protection (CIP) whatever this is, the lack of a unique solution, a universal system for ensuring PIC. The use of the concept of critical infrastructure protection should require implementation of the PIC in accordance with safety and evaluation, design and implementation of integrated protection mechanisms (i.e., constructive measures and equipment, organizational and procedural measures, measures related to human resources and personnel).

The critical infrastructure protection mechanisms could include: perimeter protection and physical barriers to their sustainable access control, intrusion