

ABSTRACT OF THE DOCTORAL DISSERTATION

The thesis begins with a methodological chapter. This chapter introduces the problem, justifies the need to undertake research on it, defines the subject and objectives of research, the main research problem and specific problems, the main research hypothesis and detailed hypotheses, and describes their organization and the course. It also presents the methods, techniques and research tools used in the research.

The second chapter contains theoretical considerations on the subject of the thesis. It presents the crisis management system that currently has been operating in Poland since 2007 at the central, provincial and local government levels. The critical infrastructure protection system was also presented and the National Critical Infrastructure Protection Program was described. There is also a subsection describing the mechanism of drawing up plans for the protection of critical infrastructure.

The next chapter presents an analysis of the institutional security system of critical infrastructure. It reviewed the most important institutions responsible for the security of IK, and also discussed the anti-terrorist system of the Republic of Poland, including the system of alarm stages and CRP alarm stages, and presented issues related to the national cybersecurity system.

Chapter four focuses on the review of contemporary threats to which objects, devices and installations that are part of critical infrastructure may currently be vulnerable. On the basis of the above review, the threat that may occur in relation to IK was analyzed, and their operation may lead to dysfunction of objects, installations and devices included in the IK site. The threats that may occur from foreign special services, terrorist, occurring in cyberspace, information and related to the use of unmanned aerial vehicles are described in detail. Selected cases of attacks on the Ukrainian IK and issues of damage to Nord Stream 1 and Nord Stream 2 gas pipelines were also characterized.

The fifth chapter was devoted to solutions strengthening the protection of the IK, scheduled for the time of peace, external threat to the state and war. In that chapter, there are described in details, the procedures resulting from the Act on the Protection of Persons and Property and the provisions on objects particularly important for the security and defense of the state and their special protection, as well as the presented issue of militarization.

Chapter six presents the planned solutions in the field of critical infrastructure, which must be implemented into the Polish legal order by implementing the provisions of the CER directive on the resilience of critical entities. A new solution for critical infrastructure was also

presented, which provides for in the draft law on civil protection and on the state of natural disaster.

The dissertation closes with the conclusion , which includes conclusions collected after analyzing all chapters of the thesis, as well as an assessment of the achieved goal and research assumptions. The chapter also contains a presentation of conclusions from hypothesis verification - final results from the research conducted.

The dissertation is complemented by a bibliography, which contains a summary of source materials used in the research process, and attachments, including: an interview questionnaire with the experts, as well as a summary of the results of their opinions.

Finally, the attachments consist of an interview sheet with experts and a summary of the results of their opinion research.