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MAIN DIRECTIONS OF ENSURING NATIONAL SECURITY AND MECHANISMS OF PUBLIC ADMINISTRATION UNDER MARTIAL LAW

Mykola Andriienko, Petro Haman, Bohdan Ovcharenko, Pavlo Gordeieiv *"Main directions of ensuring national security and mechanisms of public administration under martial law". The task of ensuring national security is currently a key one for Ukraine, as a condition and goal of reforms in all spheres of state and social activity. The content of transformations in this area should be linked to ensuring and comprehensively strengthening Ukraine's sovereignty and preserving its territorial integrity. The current situation in the world is characterized by the presence of "points of tension", the desire of other states to implement their geopolitical plans and unresolved social problems. In addition, the state is the main institution*

that creates appropriate conditions for the functioning of each business entity. In Ukraine, there is a need to define the benchmarks of the security system, study international experience and implement it in the process of improving national security legislation. The article examines and analyzes the theoretical foundations of the state management of national security development, reveals the essence of such concepts as "national security", "economic security"; identifies the components of national and economic security of Ukraine; mechanisms of state management of economic security; characterizes three main types of security threats, namely: external and internal; real and potential; global, regional and local; identifies threats affecting economic security; develops recommendations for improving the effectiveness of the state management of economic security.

Keywords: national security, economic security, mechanism, public administration, society, external and internal threats

Микола Андрієнко, Петро Гаман, Богдан Овчаренко, Павло Гордєєв «Основні напрями забезпечення національної безпеки та механізми державного управління в умовах військового стану». Завдання забезпечення національної безпеки на даний момент для України є ключовим, як умова та мета проведення реформування в усіх сферах державної та суспільної діяльності. Зміст перетворень в цій сфері має бути пов'язаний із забезпеченням та всебічним укріпленням суверенітету України, збереженням її територіальної цілісності. Ситуація, що складається в світі нині характеризується наявністю "точок напруження", бажанням інших держав реалізувати свої геополітичні плани та невирішеними соціальними проблемами. Крім того, держава є основною інституцією, яка створює відповідні умови для функціонування кожного суб'єкта господарювання. В Україні назріла необхідність визначити орієнтири системи безпеки, вивчити міжнародний досвід та реалізувати його в процесі удосконалення законодавства щодо національної безпеки. У статті розглянуто та проаналізовано теоретичні основи державного управління розвитком національної безпеки, розкрито сутність таких понять як "національна безпека", "економічна безпека"; визначені складові національної та економічної безпеки України; механізми державного управління економічною безпекою, охарактеризовані три основні види загроз безпеці, а саме: зовнішні та внутрішні; реальні і потенційні; глобальні, регіональні та локальні; виявлені загрози, які впливають на економічну безпеку; розроблені рекомендації щодо підвищення ефективності впроваджених заходів та мінімізації наявних загроз.

Ключові слова: національна безпека, економічна безпека, механізм, державне управління, суспільство, зовнішні та внутрішні загрози

Introduction. In today's globalized world, every country strives for economic independence. In particular, to achieve this result, the issue of the theoretical foundations of public administration of national security development, determining the role and place of economic security in the overall system of public administration mechanisms for ensuring national security of Ukraine is important. In today's realities, we can see a tendency for threatening factors to influence the activities of the state. In the future, this may lead to a decrease in the level of economic security of Ukraine, which in turn

will significantly affect the national security of the country as a whole. In addition, the effectiveness of ensuring national security directly depends on the state of the state's economy, since the realization of national interests is largely conditioned by the availability of appropriate economic opportunities. In Ukraine, in the context of reforms in all spheres of life, the issue of national security and the mechanism for ensuring it is one of the key ones. The complicated domestic political and economic situation, the spread of international terrorism, and the growing threats to the

interests of citizens, society, and the state require the development of effective measures aimed at ensuring national security.

Analysis of recent research and publications. One of the main mechanisms of state policy that determine the ways of ensuring the national security of the state is the organizational and legal mechanisms. The organizational mechanism of the state policy ensures coordination of the activities of the authorities, creation of the necessary structures in the system of ensuring national security, initiation and holding of public discussions on national security issues, and the legal mechanism has a legislative approach, which is revealed through ensuring national security by adopting new legislative norms and their implementation through various forms of state control.

The essence of the mechanisms of state policy proposed by scholars, in particular, such as I. Binko, S. Holovashchenko, O. Danilian, O. Dzoban, A. Kachynskyi, N. Nyzhnyk, H. Sytnyk and others, is to implement mechanisms of state policy to ensure national security, to coordinate the activities of the authorities in this area.

The formulation of the goals of the article is analysis of the main directions of ensuring national security and mechanisms of public administration under martial law.

Presentation of the main results. The effectiveness of ensuring national security directly depends on the state of the state's economy, since the realization of national interests is largely conditioned by the availability of appropriate economic opportunities. In Ukraine, in the context of reforms in all spheres of life, the issue of national security and the mechanism for ensuring it is one of the key ones. The complicated domestic political and economic situation, the spread of international terrorism, and the growing threats to the interests of citizens, society, and the state require the development of effective measures aimed at ensuring national security.

The strategic goal of ensuring national security in the sphere of state and public

security is determined by the national interests of Ukraine in the domestic political sphere, which include the preservation of the constitutional order, maintenance of civil and national harmony, and unity of the legal space [1, 2].

Based on a detailed analysis of regulatory and legal documents, it is advisable to group the main factors that influence the state of the USCS and its development in the current and medium-term perspective. After all, in general, the challenges and threats that characterize the modern security environment can be grouped into two groups of factors - external (foreign policy, military, environmental and other) and internal (internal political, socio-economic, man-made, natural and other) [3].

Let us consider in more detail these groups of factors and their impact on the state and development of the state civil protection system in the current and projected security environment:

1) External (foreign policy, military, environmental, etc.):

- Changes in the geopolitical situation in the world that caused the crisis of the international security system, increase in the number and scale of terrorist attacks during political and armed struggle;

- an increase in the number of local military conflicts with the threat of their escalation into large-scale wars, the continued probability of the use of weapons of mass destruction (chemical, nuclear, etc.) and their components in modern armed conflicts;

- further changes in the peculiarities of armed struggle (priority use of high-precision weapons, improvement of modern means of destruction, creation of weapons based on new principles of destruction, etc.)

- transformation of the mechanism of emergence and development of modern military-political conflicts (increasing the role of indirect (non-military) actions against the enemy: political, diplomatic, economic, environmental, information and

psychological operations and other forms of active influence);

- use of forms and methods of "hybrid warfare" against Ukraine;

- global climate change and deterioration of the planet's environment, resulting in large-scale natural disasters, environmental catastrophes, growing water and food shortages, etc;

- the likelihood of biological threats, the emergence of new human (animal, plant) diseases, in particular the COVID-19 coronavirus pandemic, is increasing [4].

2) Internal (domestic political, socio-economic, and other):

- Slowdown in the development of the state's economy, resulting in limited financial, material and technical capabilities of the country;

- transformation of the strategic priorities of Ukraine's development as a democratic state (restructuring of all institutions of the country to achieve the conditions necessary for full membership in the European Union and NATO);

- the presence of a military conflict in the east of the country, the need to eliminate its consequences, and the growth of internal migration in the country as a result of the annexation of territories;

- improvement of the public administration system by reforming local self-government and territorial organization of power in Ukraine;

- a decrease in the level of industrial and technogenic safety due to the deterioration of industrial and transport infrastructure, high-risk facilities;

- preservation of the trend of large-scale natural emergencies (natural hazards, floods, etc.) on the territory of the state [5].

The armed aggression of the Russian Federation, which continues the war and systematically uses political, economic, information and psychological, cyber and military means, is a permanent threat to the security of our state [6]. Therefore, the system of ensuring national security should include a set of measures and activities of security

actors to implement them in order to ensure reliable and stable functioning of social relations in the state. After all, the content of actions in a modern military-political conflict is not so much the physical destruction of the enemy's armed forces, but demoralization and imposition of the aggressor's will on the entire population of the state through the use of a wide range of military and non-military instruments.

Conclusions. Thus, in modern military-political conflicts, civilians are one of the main objects of the enemy's so-called "attention": they not only bear the main physical burden of the consequences of armed confrontation, but also are under enormous pressure from ideological, economic, informational, psychological and other components of this military-political conflict.

The above-mentioned threats give grounds for increased attention of the state authorities in the course of improving the USPCS to ensure its readiness and capability to fulfill the tasks of protecting the population and territories from the consequences of military conflicts in a special period, and to eliminate the consequences of emergencies related to the use of conventional means of destruction and weapons of mass destruction or their components.

Ensuring security should be considered one of the most important national priorities that will help overcome the difficulties of the transition period and start economic recovery, provide access to global economic relations and, at the same time, guarantee the protection of national interests in the field of internal and external relations. Ensuring national security is a long-term and strategic task. Its solution involves the development of the concept of state security and the approval of the state security strategy, as well as the implementation of policies aimed at their realization. National security is ensured at each level by appropriate structures and methods.

References

1. Bilyi, V. I. and Mykhalchuk, V. M. (2021), "The main directions of ensuring the national security of the state", *Investytsii: praktyka ta dosvid*, № 17. Pp. 92-98. DOI: <https://doi.org/10.32702/23066814.2021.17.92>.
2. Leshchenko, O. Ia., Mykhailov, V. M., Andriienko, M. V., Haman, P. I. and Dolhyi, O. A. (2021), *Tsyvilnyi zakhyst u zabezpechenni natsionalnoi bezpeky Ukrainy (osnovy stanovlennia, suchasnyi stan, napriamky rozvytku)* [Civil Protection in Ensuring the National Security of Ukraine (Fundamentals of Formation, Current Status, and Directions of Development)], Kyiv, Ukraine, 350 p.
3. Koval, Ya. (2023), "Directions management of economic security of the state in the context of globalization processes". *Public administration and law review*. №3. Pp. 39-48. DOI: <https://doi.org/10.36690/2674-5216-2023-3-39-48>
4. Reznikova, O. O. (2020), "Comparative analysis of the main conceptual approaches to building national resilience", *Visnyk Lvivskoho universytetu. Serii: Filosofska-politologichni studii*, № 28. Pp. 175–181.
5. Kissyndzher, Henri (2020), *Dyplomatiia [Diplomacy]*, KM BUKS, Kyiv, Ukraine, 864 p.
6. Reznikova, O. O. (2022), *Natsionalna stiikist v umovakh minlyvoho bezpekovoho seredovyshcha* [National resilience in a changing security environment], NISD, Kyiv, Ukraine, 532 p.