## UDC 656.212.5

## ON THE QUESTION OF INTERNATIONAL RAILWAY CARGO TRANSPORTATION IN WAR TIME

H.I. Shelekhan, PhD (Tech.), V.V. Lutsiv Ukrainian State University Of Railway Transport (Kharkiv)

In recent years, Ukraine has been embroiled in a war conflict that has significantly impacted various aspects of life in the country. One area that has faced challenges is the railway transportation of cargo. The ongoing war has brought about disruptions and uncertainties, affecting the efficiency and effectiveness of this crucial mode of transport. This article aims to explore the export railway transportation of cargo in Ukraine in conditions of war, examining the challenges faced, the strategies employed to mitigate these challenges, and the implications for both domestic and international trade.

International rail transport in times of war faces a number of risks. The largest among the possible ones should be highlighted.

In the context of military conflicts, the risk of attacks on trains, explosions and sabotage increases, which can lead to a threat to the life and health of passengers and damage to transported goods.

Conducting military operations leads to damage to infrastructure: they can lead to the destruction of railway tracks, bridges, stations and other infrastructure, which entails blocking the movement of trains.

In addition, the risk of cargo loss due to capture, theft or sabotage increases. Involuntary refusals of transportation are also possible in order to avoid confiscation or destruction. Damage to railway rolling stock and other equipment will result in financial losses and delivery delays.

Military conflicts can cause changes in the political situation and customs regulations in the countries through which the route passes, which can lead to additional restrictions, delays and increased bureaucratic procedures. Overall, international rail transport in wartime environments is subject to significant security risks and operational challenges, requiring careful analysis and planning by operators and logistics companies.

In the conditions of war, preserving and increasing the volume of international cargo for export via railway can be a difficult task due to security threats, destroyed infrastructure and changes in the political situation. However, several methods can still be considered.

Route planning and safety as a development of routes that minimize risks and take safety into account. This may include the selection of routes that bypass dangerous zones, the use of military escorts for freight trains, and increased security at stations and terminals.

In the conditions of war, preserving and increasing the volume of

international cargo for export via the railway can be a difficult task, but there are certain strategies and measures that can be taken:

Interaction with international partners and cooperation with other countries and international organizations can help ensure the safety and stability of transport routes. This may include the conclusion of an agreement on cooperation in the field of security and the exchange of information about risks.

The use of specialized protected containers and technologies to ensure the safety of cargo can reduce the risk of their damage or theft in the conditions of military conflicts.

Adaptability and flexible response to changes in the situation and adaptation to new conditions, including rapid reconfiguration of routes, reorganization of logistics and the use of alternative delivery methods. Diversification of routes should also be attributed to them. The development of alternative routes and transit corridors can reduce the risks of blocking major highways due to military operations. This may include the use of several railway tracks or even multimodal transport systems, including railways, seaports and road routes.

Despite the challenges posed by the ongoing war in Ukraine, the railway transportation of cargo remains a vital lifeline for the country's economy. The resilience and adaptability of the railway system, coupled with strategic planning and innovative solutions, are key to ensuring the continued flow of goods in these difficult circumstances.

## **UDC 656.212**

## IDENTIFICATION OF THE MAIN RISK GROUPS IN INTERNATIONAL RAIL FREIGHT TRANSPORTATION

H.I. Shelekhan, PhD (Tech.), Yu.T. Papka Ukrainian State University Of Railway Transport (Kharkiv)

International rail freight transportation plays an important role in Ukraine's economy, providing an efficient and relatively cheap way to transport goods. However, this mode of transportation carries a number of risks that can significantly affect logistics processes, economic stability and Ukraine's reputation in the international market.

Due to its geographical location, Ukraine often finds itself at the center of geopolitical conflicts, which can lead to the closure of transport corridors, the imposition of sanctions or blocking of routes. Constant changes in cargo transportation legislation can create unpredictability for railroad operators. For example, the introduction of new customs rules or changes in tariffs may affect