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Assoc. Prof. Dr. Mustafa Göktuğ KAYA
Prof. Dr. Savaş ÇEVİK

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EDITORS:

**Assoc. Prof. Dr. Mustafa
Göktug KAYA**

Prof. Dr. Savas ÇEVİK

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PROBLEMS OF PETROLEUM PRODUCTS TRANSPORTATION IN TANKS

Elena Sierikova, PhD

National University of Civil Defence of Ukraine, Kharkiv, Ukraine

ORCID: 0000-0003-0354-9720

Volodymyr Holota

National University of Civil Defence of Ukraine, Kharkiv, Ukraine

ORCID: 0009-0005-7461-4376

ABSTRACT

Transportation of petroleum products, characterized primarily by oil product leaks due to abnormal situations due to corrosion processes, violations of operational processes and technical conditions, accidents and physical impacts on oil pipelines, is a factor of environmental hazard. Storage of petroleum products in tanks during their transportation creates a number of environmental problems associated with environmental pollution. The negative impact of petroleum products is on atmospheric air, soils, groundwater and surface water. In addition, most oil fields both in Ukraine and abroad are located at a great distance from places of storage, processing or sale of petroleum products, therefore fast and environmentally safe delivery is of critical importance both for maintaining current indicators and for the development of the entire industry. At the same time, the issue of environmental assessment of the impacts of petroleum products stored in tanks during their transportation remains unexplored today. The lack of constant monitoring and control over the condition of tanks and vehicles transporting petroleum products leads to an increased likelihood of technogenic disasters, and today there is no effective clearly formed system of preventive measures, in particular, the prevention of emergency situations [1-3].

To solve this problem, it is necessary to choose a scientifically based approach that will allow analyzing and assessing the actual state of influencing factors at all stages of transportation, predicting the trend of changes in technogenic impacts, establishing priorities and choosing preventive and environmental protection measures, etc. and the need to develop and implement effective technologies that will ensure an increase in the environmental safety level during the petroleum products storage and transportation [4-5].

Therefore, the development and implementation of effective technologies that will ensure an increase in the environmental safety level during the storage and transportation of petroleum products is an urgent task today.

Keywords: petroleum, Transportation, technogenic