

METHODOLOGY FOR DISPOSAL OF USED MILITARY EQUIPMENT

Vambol S.O., Trush O.O., Mezentseva I.O.

National Technical University "Kharkiv Polytechnic Institute", Kharkiv

The aim of the study is to develop a scientific and methodological approach to the study of the handling of spent military equipment, taking into account the visualization of the information and analytical review. Based on the analysis of existing approaches [1], a step-by-step scientifically substantiated methodology for the disposal of spent military equipment was developed, taking into account the visualization of the information and analytical review. At the same time, the main parameters and the algorithm for visualizing the information and analytical review for the proposed methodology were determined.

To develop the research methodology, an approach was chosen based on comparing the searches and results of both theorists and practitioners of the scientific field, combining environmental safety and environmental protection technologies. Own experience was used, based on the results of own theoretical and applied research in the field of waste management and handling, development of recycling technologies and equipment for solving environmental protection problems. The most common method of analysis used in this case was information and analytical, based on open information sources. The main tool for visualizing information research was a software product based on VOSviewer, which can be adapted in a fairly flexible way to solve the tasks set.

Eight main linear-sequential stages of the methodology were formulated, namely:

- Formulating the problematic question, formulating the main objectives of the research.
- Evidence, facts and justification for the need to resolve the problematic issue.
- Determination of the main criteria for selecting information sources and publications.
- Primary, detailed information-analytical (with visualization) analysis of full-text studies.
- Analysis of existing and development of the main theoretical and technological foundations for solving the problematic issue.
- Implementation of innovative waste management projects and disclosure of the nature of the risks of these measures.
- Comparison of the obtained results and practical experience in waste management.
- Conclusions, suggestions and advice based on the results of the scientific research.

The proposed methodology is not dogmatic and is essentially the beginning of a sequential-parallel approach to the study of this problem. The authors hope that the proposed linear-sequential methodology can be useful for developing the scientific basis for the disposal of used military equipment.

Literature:

1. Vambol, S.O., Tkachuk, K.K., Shestopalov, O.V., Sakun, A.O., Vambol, V.S. (2024). Methodological approach to the study of industrial waste management and visualization of information and analytical review. Problems of labor protection in Ukraine, 40 (3-4), 3-12. DOI: 10.36804/nndipbop.40-3-4.2024.3-12.