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RESEARCH AND REGULATORY AND TECHNICAL SUPPORT OF RELIABILITY OF OIL TANKS ABROAD

Background

The state of tank farms for oil and oil products in Russia is characterized by a significant deterioration; some methodological principles and provisions laid in the rules and methods that are to ensure reliability of tanks during operation and repair became obsolete. Against this background, it becomes necessary to assess the current foreign approach to solving this problem.

Aims and Objectives

This paper gives an overview of the existing abroad solutions of tank reliability problems, including the description of research, regulatory and technical support of the tank reliability.

Results

The considered foreign papers and regulations do not take into account the influence of structural elements of steel vertical tanks on the level of reliability of the tank as a whole.

The existing methods of assessing the intensity of failure flow give different values, therefore, it is necessary to consider all methods, link them together, and obtain a single value.

Not only in Russia but also abroad the problem of assessing the reliability of oil tanks at different stages of their life cycle is still studied insufficiently.

Key words: tank, reliability, quality, life cycle, failure

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