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REHABILITATION OF HYDROTECHNICAL STRUCTURES IN THE ACTUAL CONDITIONS OF CLIMATE AND ANTHROPIC CHANGES

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Abstract

In the eastern part of Romania, there are a lot of reservoirs of water whose age exceeds 30-40 years. They were built taking into account the existing norms and the specific environmental conditions at that time. Over time, there have been numerous changes in the parameters that define how these water reservoirs are exploited, which have questioned their safety in operation. The deforestation that has taken place over the last 30 years in Romania and the climate change have led to the emergence of extreme weather and hydrological phenomena that have put hydrotechnical structures to a challenging test. Lately, securing the ability to transit the floods through medium and small hydrotechnical arrangements safely has become a stringent problem that requires finding solutions. The fact that the hydrotechnical structures are unique and the solutions adopted in a situation cannot be adopted altogether and in another work, leads to difficulties in the safety of these types of structures. The more the problem becomes worse when the initial use of the work needs to be changed.

Key words: floods, hydrotechnical structures, rehabilitation, wave trap

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