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REQUIREMENTS FOR DEVELOPMENT INFORMATION-DIAGNOSTIC COMPLEX FOR MONITORING AND PREDICTION OF TECHNICAL CONDITION OF TANKS WITH FLAMMABLE LIQUIDS IN THE ANTARCTIC

Modern environmental conservation confront scientists and engineers new challenges, including the safe operation of environmental and hazardous objects, including storage tanks located at the Antarctic stations. This is due to adverse climatic conditions, poor access and strict requirements for environmental safety in Antarctica.

Thus, there is the issue of control of technical condition of the tank for fuel. At the moment, its solution is best suited information- diagnostic systems. To ensure their safe operation at all stages of the life cycle to define the requirements for such a complex in accordance with existing laws and regulations and technical documents.

Other authors or no set requirements for diagnosis, or the requirements established by them do not meet the demanding conditions in Antarctica. The aim of this paper is to: 1) improve the classification of integrated monitoring, 2) establishing requirements for information-diagnostic systems with fuel tanks operated in Antarctica.

Therefore be analyzed and improved regulatory and technical documents on operation of tanks, monitoring-diagnosis of buildings and structures and requirements for monitoring systems operating in Antarctica. Investigated and analyzed the design of the tank for fuel.

To monitor and determine the current condition of the fuel tank offered information and diagnostic system, which by its structure, functionality and characteristics of the performance requirements.

Keywords: information-diagnostic equipment, maintenance, fuel storage tanks, safe operation.