CONTROL OF CONSTRUCTION WORK QUALITY IN THE ERECTION OF OFFSHORE PIPELINES IN SHALLOW WATER

Background
The problem concerning the construction of extremely complex engineering structures, including offshore pipelines, is relevant. Thus the purpose of this paper is to study the most important component of construction, which refers to the quality control of construction works. Analysis of long-term domestic and foreign experience in the construction and operation of underwater pipelines shows that the main criterion in modern conditions is the quality of construction of pipelines. So, a strategic task of the construction of underwater pipelines is their reliability and safety with the objective of maintaining and extending the period of operation in accordance with the resources of the fields.

Methods
Reviewing methods of nondestructive testing of welded joints – radiation and ultrasonic testing.
Reviewing offshore pipeline design and construction conformance to such regulatory documents as both international standards ISO 13623 and DNW OS-F101, and the Russian standards.

Conclusion
Domestic standards regulate primarily the environmental conditions, while the international standards put offshore pipelines in the «land – sea» contact zone in a higher category and regulate the depth of their laying for protection from marine and ice ploughing through.
Summarizing the above, one can conclude that the use of step-by-step detailed plan of checks is expedient in construction of offshore pipelines. In modern conditions of offshore pipeline construction such inspection appears necessary, since any defect during construction can result in big losses to the customer in the future.

Key words: offshore pipeline, design, construction, quality control, regulatory documents, feasibility report

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