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CALCULATING OF ALLOWABLE PRESSURE IN THE TRANSMISSION PIPELINE IN VIEW OF ANALYSIS OF INFORMATION OF INTRATERNAL AND LOCAL DIAGNOSTICS

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ABSTRACT

The topical problem for transmission pipelines, which are exploited after the end of lifetime of exploitation, is the assessment of technical condition and prognostication of residual life. Because of remarkable expenses, which are necessary for complete renewal of exploited pipelines, in present time the exploitation is performed by their technical condition. The usage of methods of nondestructive diagnostic operation by in-line inspection apparatus lets with quite high degree of credibility to detect and identify the significant quantity of defects, to determine their geometrical parameters. But there are also cases, when results of in-line inspection do not conform to results of local diagnostics. In these cases the additional calculation is performed concerning allowable pressure of pipeline section that has certain defect. At this work one of these cases is observed.

As an example, the analysis of corrosive type defect will be performed. The calculation on residual strength will be performed. The results of research will help to make conclusions regarding the assessment of defect dangerousness.