

Accepted Manuscript

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PII: S1018-3639(16)30033-2

DOI: <http://dx.doi.org/10.1016/j.jksues.2016.09.002>

Reference: JKSUES 218

To appear in: *Journal of King Saud University - Engineering Sciences*

Received Date: 18 May 2016

Accepted Date: 26 September 2016

Please cite this article as: Maruschak, P.O., Panin, S.V., Chausov, N.G., Bischak, R.T., Polyvana, U.V., Effect of long-term operation on steels of main gas pipeline: structural and mechanical degradation, *Journal of King Saud University - Engineering Sciences* (2016), doi: <http://dx.doi.org/10.1016/j.jksues.2016.09.002>

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Effect of long-term operation on steels of main gas pipeline: structural and mechanical degradation

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