

Pipeline Safety and Asset Management

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ABSTRACT

Proper pipeline maintenance ultimately saves lives and money, and mitigates risks of pipeline failure. The U.S. law has imposed a control on maintenance of pipelines. Pipelines are an essential part of our transportation infrastructure and greatly contribute to the economy. The objective of this paper is to better understand the main causes of pipeline failures. This will lower the risks of damage by improving maintenance practices. More accurate pipeline economical assessment is recommended for proper estimation of the pipeline maintenance funding needs. Outside and inside forces have a significant impact on the life expectancy of the installation. In order to make the right preventive and corrective maintenance decisions, a pipeline inspection and assessment are recommended. The scope of this paper is to determine the main causes of pipeline damages and how to prevent them. Finally, a maintenance application for ongoing research on underground freight pipeline will be discussed. This research is limited to the assessment of infrastructure to the required government's methods for reporting the value of infrastructures.

Keywords: Pipeline Safety, Asset Management, Causes of Pipelines Failures