

عنوان مقاله:

A Comparative Concept for Pipeline Seeps in Deep LDS Based on Remote Sensing

محل انتشار:

دومین کنفرانس لوله و صنایع وابسته (سال: 1388)

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خلاصه مقاله:

Pipeline is an efficient and economic transportation means for petroleum. However, risks associated with leakage of petroleum transportation are still high. In practice, slightly more than two million kilometers petroleum pipelines are feeding refineries and providing services to the need of business around the world. In each of the both technical and environmental issue, Leak Detection Systems in short LDSs are being part of essence of the pipeline network. From the case of technical issue LDSs specifically are going to develop to provide reliable process. In the same way the result of real-time monitoring of spillage is preventing the course of pollution and decreasing the time to fix pollution respectively. Nowadays, LDSs have been inset of detecting spillage by the systems of Software and Hardware, Remote sensing and Satellite imagery followed by Bio-mimicry method. Many pipeline companies operate with legacy LDSs and also many other new LDSs to keep environmental clean and operational safe. Comparative methods also provide the need of company beneficiary based on strength, weakness of each existing methods. In the following pages LDSs are well discussed. It has focused on important keys of Capabilities and limitations of current LDSs, Regulatory requirement as well as Department of Environment (DOE) and International Petroleum Industry Environmental Conservation Association (IPIECA), and advance leak detection technology. Furthermore, in real-world applications adaptability of detection systems are evaluated from the series of parameters according to the ISO and Standards. It helps decision maker with choosing one or the series of high-tech tools for a new pipeline projects and existing hotlines individually aim to detecting leak place accurately and inexpensively.

کلمات کلیدی:

LDS, Petroleum Pipeline Transportation, Thermal Remote Sensing

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