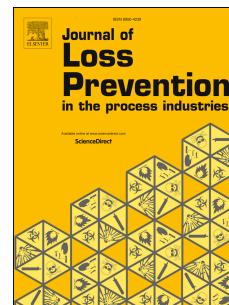


# Accepted Manuscript

STAMP-based causal analysis of China-Donghuang oil transportation pipeline leakage and explosion accident

Yunhua Gong, Yuntao Li



PII: S0950-4230(18)30527-8

DOI: [10.1016/j.jlp.2018.10.001](https://doi.org/10.1016/j.jlp.2018.10.001)

Reference: JLPP 3786

To appear in: *Journal of Loss Prevention in the Process Industries*

Received Date: 6 June 2018

Revised Date: 29 September 2018

Accepted Date: 1 October 2018

Please cite this article as: Gong, Y., Li, Y., STAMP-based causal analysis of China-Donghuang oil transportation pipeline leakage and explosion accident, *Journal of Loss Prevention in the Process Industries* (2018), doi: <https://doi.org/10.1016/j.jlp.2018.10.001>.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

# **STAMP-based causal analysis of China-Donghuang oil transportation pipeline leakage and explosion accident**

Yunhua Gong\* Yuntao Li

*School of Mechanics, Storage & Transportation Engineering, China University of Petroleum, Beijing,*

*China*

## **Abstract**

The methods used by researchers and accident investigators to analyze or investigate accidents are critical for understanding the underlying causes and for proposing improvement measures. As a systematic analysis model, Systems-Theoretic Accident Model and Processes (STAMP) is used in the aviation, maritime, and railway transportation industries, among others. To the best of the author's knowledge, no systematic analysis approach has been applied in the long-distance pipeline transportation industry. However, the pipeline transportation system is increasingly being considered a complex socio-technical system that requires the exploration of accident causes from a systematic viewpoint. The aims of this paper are to identify the causal factors of the China-Donghuang oil transportation pipeline leakage and explosion accident through a systematic method and illustrate the appropriateness of applying STAMP to the analysis of incidents in the long-distance pipeline transportation industry. To achieve this, a systematic analysis based on STAMP is conducted on the China-Donghuang oil transportation pipeline leakage and explosion accident. The analysis results expand the causal analysis beyond immediate failures, to causes from a systematic

Download English Version:

<https://daneshyari.com/en/article/11003055>

Download Persian Version:

<https://daneshyari.com/article/11003055>

[Daneshyari.com](https://daneshyari.com)