عنوان مقاله:

Consequence modeling and analysis of hazardous material dispersion by PHAST software: A Case Study in the South Pars Gas Field Development Phases 15&16

محل انتشار:

چهارمین کنفرانس بین المللی نفت،گاز،پالایش وپتروشیمی بارویکردتوسعه ارتباط دولت،دانشگاه وصنعت (سال: 1395)

تعداد صفحات اصل مقاله: 8

نویسندگان:

Hamid Ranjbar - *HSE Engineer, Petroleum University of Technology, Abadan, Iran*

Bagher Anvaripour - *Associated Professor, Petroleum University of Technology, Abadan, Iran*

Bahram Ghasemi - *3MSc in HSE Engineering, Petroleum University of Technology, Abadan, Iran*

خلاصه مقاله:

Chemicals used in petrochemical industry are generally comprised of toxic and inflammable substances; they may cause serious problems for humans and environment. To analyse the dispersion of release toxic and flammable material, there are some models like PHAST, ALOHA, SLAB and DEGADIS, but according to the observations and in this article, consequences and conditions of leak of one mixture which is in service at South Pars Gas Field Development (Phases 15&16) is investigated using PHAST software. This paper describes the analysis and results of a PHAST case study of NGL (Natural Gas Liquid) fractionation in the south pars gas field phases 15&16 with three scenarios assumption which are LFL gas dispersion, jet fire and explosion. PHAST version 7.11.33.0 has been used .in this work

کلمات کلیدی:

Consequence modeling, Rupture, PHAST Software, Leakage, Flash fire