

عنوان مقاله:

Consequence modeling and evaluation of gas dispersion of ethane export gas line – A case study

محل انتشار:

چهارمین کنفرانس بین المللی برنامه ریزی و مدیریت محیط زیست (سال: 1396)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

All processes have a risk potential. In order to manage risks effectively, all processes must be estimated clearly. Since risk is a combination of frequency and consequence, consequence analysis is a necessary step in the risk management process. A good manner to predict the consequences of various accidents is using comprehensive software. PHAST software is the most suitable software in the field of dispersion of toxic and flammable materials and analyzing the consequences of these accidents such as probability of death or the different kinds of fires. In this study, we are resolution to modeling and evaluation of gas dispersion of ethane export gas line from gas export compression unit from the gas refinery phase 15&16 south pars gas field development project using PHAST software. The results show with increasing the wind speed, to some extent, the range of danger (according standard it is half amount of mixture LFL) increases then decreases.

کلمات کلیدی:

Consequence analysis, Risk management, PHAST, Gas dispersion

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