

Abstract

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**RISK ASSASMENT OF OIL and GAS TRANSPORTATION IN SUEZ CANAL
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ABSTRACT: Transportation of oil and gas by Sea imposes challenges from a safety viewpoint. In this type of transportation, different sizes of special tankers carrying oil and gas. The marine transportation of these scarce natural riches is involved with risks and hazards, which may lead to many losses for instance, wasting oil and gas, injuries of people, damaging ships and properties, and damaging environment. The main purpose of this paper is to evaluate the risks, hazards, and accidents during transportation of oil and gas (mainly Crude Oil, liquefied petroleum gas, and Liquefied natural gas) by Sea with concentrating on transport safety. Hence, a better understanding of these risks and hazards can contribute to decrease of addressed losses. This study is carried out on risks associated with maritime transportation of oil and gas starting with describing the general casual chain (dealing with causes, incidents, accidents and consequences/causalities), continuing with describing risk analysis techniques (including event tree analysis and fault tree analysis) and risk control measures/options, and finally implementing aforesaid investigations on real data from two areas namely Suez canal sector and associated seas.