

عنوان مقاله:

Introduction an Applicable Operational MODEL Based Risk/Risk Assessment/Risk Management for Health-Safety and Environment Management System (HSE-MS) Study of Gas Condensate Vessel in Different Stages

محل انتشار:

دومین همایش بین المللی توسعه فناوری در نفت، گاز، پالایش و پتروشیمی (سال: 1399)

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خلاصه مقاله:

In this completely novel article, for the first time, it was proposed a new applicable operational MODEL based risk/Risk Assessment/Risk Management for Health-Safety and Environment Management System (HSE-MS) Study of Gas Condensate Vessel with floating roof in different stages. This model included all aspects and parts of HSE system. Stages included foundation of vessel floor, vessel shell, floating roof, sand blasting and painting. Powerful engineering method of FMEA was applied for this purpose. Results of calculations related to risks before control actions, showed that by applying control actions, all risk numbers decreased 50%, 66.67% and 75%; that this decrease, was completely significant. This decrease showed that all of proposed and suggested control actions were appropriate and effectiveness. Plots of risk numbers after applying control actions were drawn vs risk numbers before applying control actions for different stages. Regression mathematical correlations (R^2) were calculated for different stages. Approximately all of calculated R^2 values were equal 1. Also according results, obtained mathematical equations related the model were as linear, 2-order, 3-order, 4-order and power law. Research Highlights -An new operational applicable MODEL based risk and risk assessment and risk management for HSE-MS Study of gas condensate vessel in different stages with floating roof was proposed for the first time. -Powerful FMEA method was applied for identifying, analyzing, assessing and controlling HSE risks. -Hazards, causes and effects of HSE risks was identified .analytically and completely. -Real applicable management /engineered actions were proposed for controlling risks

کلمات کلیدی:

.Operation, Model, HSE-MS, Risk, Assessment, Management, system, Gas Condensate Vessel

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