

HAZARD IDENTIFICATION AND RISK ASSESSMENT OF MALEO PRODUCER PLATFORM, PT RADIANT UTAMA INTERINSKO TBK

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**DEPARTMENT OF MARINE SCIENCES AND TECHNOLOGY
FACULTY OF FISHERIES AND MARINE SCIENCES
BOGOR AGRICULTURAL UNIVERSITY
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Bogor, August Year 2024

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ABSTRACT

MUHAMMAD IZZADIN HAYKAL RIZA. Hazard Identification and Risk Assessment of Maleo Producer Platform, PT Radiant Utama Interinsco Tbk. Supervised by NADYA CAKASANA and SYAMSUL ANWAR.

PT Radiant Utama Interinsco Tbk is a company focused on the oil and gas processing industry. One of their offshore gas platforms located in Madura Strait is a drilling jack-up that was retrofitted into Mobile Offshore Production Unit (MOPU). This MOPU was acquired by Radiant Utama Interinsco Tbk in 2011 and transformed into the Maleo Producer Platform. Most of their work activities are unsafe, which is why HSE management plays a crucial role in this company. The methods used are Hazard Identification, Risk Assessment, and Risk Control (HIRARC) in order to determine the proper risk control for each hazard. The data in this research was gained using secondary data from the PT RUI company's HSE plan document. The general results of hazard identification and risk assessment from ten activities in the Maleo Producer Platform found that most of the activities are unsafe and fall into the medium risk category, but throughout 2023 there were no recorded incidents that proved that PT RUI has successfully managed all the unsafe activities.

Keywords : HIRARC, HSE, Risk Assessment

ABSTRAK

MUHAMMAD IZZADIN HAYKAL RIZA. Identifikasi Bahaya dan Penilaian Risiko pada Platform Produsen Maleo, PT Radiant Utama Interinsco Tbk. Dibimbing oleh NADYA CAKASANA dan SYAMSUL ANWAR.

PT Radiant Utama Interinsco Tbk merupakan sebuah perusahaan yang bergerak di bidang industri pengolahan minyak dan gas. Salah satu anjungan gas lepas pantai mereka yang terletak di Selat Madura adalah sebuah pengeboran *jack-up* yang telah dimodifikasi menjadi *Mobile Offshore Production Unit* (MOPU). MOPU ini diakuisisi oleh PT Radiant Utama Interinsco Tbk (RUI) pada tahun 2011 dan dinamakan *Maleo Producer Platform* (MPP). Sebagian besar aktivitas kerjanya tergolong tidak aman, oleh karena itu manajemen HSE memegang peranan penting di perusahaan ini. Metode yang digunakan adalah *Hazard Identification, Risk Assessment, and Risk Control* (HIRARC) dalam menentukan pengendalian risiko yang tepat untuk setiap bahaya. Data dalam penelitian ini diperoleh menggunakan data sekunder dari dokumen *HSE Plan* perusahaan PT RUI. Hasil identifikasi bahaya dan penilaian risiko secara umum dari sepuluh kegiatan di *Maleo Producer Platform* menemukan bahwa sebagian besar kegiatan tidak aman dan termasuk dalam kategori risiko sedang, namun sepanjang tahun 2023 tercatat tidak ada satu pun kecelakaan yang terjadi, yang membuktikan bahwa PT RUI telah berhasil mengelola semua kegiatan kerja dengan baik dan aman.

Kata Kunci : HIRARC, HSE, Penilaian Resiko



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Prerequisite for student to conduct final assignment undergraduate course of
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**DEPARTMENT OF MARINE SCIENCES AND TECHNOLOGY
FACULTY OF FISHERIES AND MARINE SCIENCES
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PREFACE

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