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The Optimization of Dynamic Positioning Equipment in Operating Remotely Operated Vehicle (ROV) To Eliminate Hazardous Risks in Motor Vessel of SMS Supporter

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Abstract

SMS Supporter is an Anchor Handling Towing Ship (AHTS) DP 2 vessel that is operated to serve offshore works and designed for underwater surveillance activities. Over time, currently underwater surveyors have been developed into various types, one of which is Remotely Operated Vehicle (ROV). The main objective of this research is specifically observing ROV operations using Dynamic Position (DP) equipment on board. The surveillance activity using ROV is fundamentally different from other surveillances in general. The objectives in this study are focused on the reason behind the necessary option to Optimize Dynamic Positioning Equipment in Operation Ship with Remotely Operated Vehicle (ROV) works and how the officers / Dynamic Position Operators (DPOs) together with crews are working while implementing international regulations and safety company management system when ROV operations are taking place to run optimally while avoid any hazardous risk. In ROV operations, the caterer will prepare all ROV operational equipment. Officers / SDPO will analyze the various hazards that may occur during ROV operations using DP equipment. The analysis was carried out based on the provisions of the International Marine Contractor Association (IMCA). After corrected completely, the officer / SDPO conduct a Risk Assessment of all activities that will be carried out on board of the vessel while staying mobile, launching and recovering the ROV also when the ROV operation is running. After that, the optimization process in ROV activities using DP equipment on board is done by internal strategic factors analysis summary (IFAS), external strategic factors analysis summary (EFAS), and strength-weakness-opportunities-threat (SWOT) analysis. The strengths and opportunities which they have are used to overcoming weaknesses and threats. SWOT analysis will produce some strategy in Optimalization Dynamic Positioning Equipment In Remotely Operated Vehicle (ROV) Work Operation To Eliminate Risk of Danger at Motor vessel SMS Supporter.

Keywords: Operations, Remotely Operated Vehicle (ROV), Dynamic Position (DP) equipment, hazardous risk, risk assessment, IFAS, EFAS, SWOT.

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1. Introduction

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Oil and gas mining industry, especially the offshore industry exploration sector in its operation is in a desperate need of Support vessels. Vessels that are able to work

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and operate dynamically in terms of motion and perform special tasks include: Diving Operation, Pipe / Cable laying Operation, Remotely Operated Vehicle (ROV) Operation, Platform Maintenance Operation even to serve and support Drilling work as well as Rig jack-up also requires ships as such, which later is known widely as DP (Dynamic Positioning) Vessels.

The DP equipment in ROV operation activities on ships operated by a DPO must refer to the standard procedures on board, to produce optimal operations ina regard [illegible]eration of the ROV and safety of the vessel. Sufficient specific [illegible] and skills must be owned by SDPO and another JDPO in the operation. The knowledge gained can come from the literature sources on the ship and can also come from learning applications on the computer. The skills can be acquired from training and hands-on experience about the operation of the DP in supporting the ROV operation.

Among various problems that construct the problem, the ones which will be discussed in this study are:

1. Why do you need to optimize DP equipment to support the ROV operation?
2. How do the officers / SDPO work in implementing the Standard Operating Procedure of the company when ROV operations are run optimally and avoiding the risk of danger?

2. Literature Review