HUMAN ERROR ANALYSIS OF COMMUNICATION AND NAVIGATION EQUIPMENT ON SHIP

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Abstract

There are many ship accidents that were occurred in Indonesia. One of them is caused by the heavy marine traffic like the condition at Bali Strait passage. Based on the data from KNKT, more than 80% of accidents are caused by human error. The main objective of the final project is to analyze how much the value of human error affect ship accidents due to navigation and communication equipment. After finding out how much the value of human error affect ship accidents, the next will be on the analysis of the factors that influence human error. The method used in this final project is a combination of AHP (Analytical Hierarchy Process) and SHELL model, so it can be seen how much the value of human error and the factors that influence human error. From the results of analysis show that the value of human error that effect ship accidents due to navigation and communication equipment is 19.5% and the largest value that influence human error is psychological condition by 24.2%.

Key word: ship accidents, human error, AHP, SHELL Model