Abstract

PT. Perikanan Nusantara branch of Surabaya is the dockyard which has a slip way. Repairing the ship is the main business of this company. In the process of repairing contain potential of hazard which could make working accidents. Working accident will result in the lost of material, physical or mental. Therefore it is important to prevent the working accident to reduce the risk of accident as early as possible. The prevention of accident could be done with identification of factors which causing the occurrence of those accidents.

In this final project the causing of work accidents were identified using FTA (Fault Tree Analysis) method and potential of hazard accident using FMEA (Failure Mode and Effect Analysis) method. To calculate the level of safety were using ANSI Z 16.1 (American National Standards Institute) that is a method of record and measure of work injury. Identification of danger and the prevention for the reparation of ship which is pack in JSA (Job Safety Analysis) were also conducted. The result of those analysis were used to consider the making of SOP (Standard Operating Procedure) at PT. Perikanan Nusantara Branch of Surabaya.

Keywords: FMEA, FTA, ANSI Z16.1, JSA, SOP