ABSTRACTION

Catur Agus Wibowo, 2017, NIT : 50134992.T, "*Analysis of chemical dosing pump effect on evaporator fresh water generator in MV. Loreto with Urgency, Seriousness, Growth (USG) Method",* Program Diploma IV, Technical, Merchant Marine Polytechnic of Semarang, Supervising I: Dwi Prasetyo, M.M., M..Mar.E and Supervising II: Ir. Fitri Kensiwi, M.Pd.

The Fresh Water Generator is an auxiliary aircraft that serves to convert sea water into fresh water through evaporation and condensation processes. The problem of the evaporator is the cause of the occurrence of the crust on the evaporator and the impact if there is a crust on the evaporator and the effort to prevent the occurrence of the crust on the evaporator. In this case is the influence of chemical dosing pump on evaporator fresh water generator.

research is based on experience aboard the ship when the ship sailed from Indonesia to Vietnam that is the lack of fresh water aboard the ship, the source data obtained comes from the primary data based on direct observation on the ship and interviews to ship engineers and the literature related to the title of the thesis.

The importance of function of Fresh Water Generator, hence required the right method to solve the problem of chemical dosing influence to evaporator of Fresh Water Generator. Urgency seriousness Growth method is used to analyze existing problems based on the priority order that must be completed on the Fresh Water Generator aircraft, ie the influence of chemical dosing pump in the Fresh Water Generator evaporator and the efforts made to overcome the problem. These problems can be prevented and overcome by carrying out routine maintenance such as: managing the flow of evaporator heating water, chemical dosing according to the manual, and making the procedure run on and off the Fresh Water Generator according to the manual.

Keywords: *Fresh Water Generator, Chemical Dosing, Urgency Seriousness Growth.*