

ABSTRACT

Agam Wijayanto, 2018, NIT: 50134901.T, "*The effect of welding on keel on life safety and smooth operation of ships in SV STELLA 28*", research of Engineering Study Program, Diploma IV Program, Politeknik Ilmu Pelayaran Semarang, Supervisor I: Drs. Edy Warsopurnomo, MM, M.Mar.E, Supervisor II: Capt, H. Agus Subardi, M.Mar.

Today the maritime world has progressed very rapidly, along with this, the supporting facilities need to be improved, as well as sea transportation modes that have superior value compared to order modes of transportation, room volume is relatively larger, if this is compared with the type of transportation others. Ships to operate properly need adequate machining support. For 12 month the author carried out the sea program or practice in the engine section, where I saw, watched and observed the welding work by the SV STELLA crew that does repair work. The purpose of the research is to find out what factors that affect welding that is not good, to know what impact is caused if the welding on the keel is not good, and what efforts must be made so that welding on the keel is better.

In the thesis presentation process, to be more directed and focused in more detail, this study use the Fishbone Analysis and fault Tree analysis research methods, namely the identification of various factors to find the main factors. The data collection technique use interview, observation, documentation and literature study techniques.

From the stages that the author will describe in this thesis, it can be concluded that the decrease in welding on the keel is influenced by the lack of welding skills, inappropriate welding procedures, dirty welding work environment and can be suggested that the welding work process runs well, and minimizes the risk of work which exists. For that the ship welders need to be given training, welding courses so that they are skilled and know the dangers in welding so that the safety of the soul can be fulfilled.

Keywords: welding machine, welding safety equipment, SV STELLA 28.