

ABSTRACT

Meyta Arinta Kartika Putri, 2018, NIT: 51145251.N, “**Analysis of Special Operations to Create Safe Entry Tank in LNG Golar Mazo**”, Minithesis of Nautical Department, Diploma IV Program of Politeknik Ilmu Pelayaran Semarang, Mentor I : Capt. H. Agus Subardi, M.Mar, Mentor II : Nita Setiyaningsih, S.Pd, M.Hum

The author's background to choose “Analysis of Special Operations to Create Safe Entry Tank di LNG Golar Mazo” as the topic of research, is due to the low understanding of seafarer in terms of how to prepare cargo tank of LNG vessel to be safe when inspected in dry dock. The structure of the problems are 1.) How to prepare LNG cargo tank in Golar Mazo to be safe when inspected during dry dock ? 2.) Does the special operation that has been done already carried out in accordance with standard procedures based on IGC Code, ship's manual book, and other standard ? 3.) Is there any problem occurs during Special Operations, what are the cause, and how to solve it ?

This thesis research is based on the understanding of Special Operations, the importance of machinery and equipment checking in preparation process to avoid events that could threat the safety of the ship and its contents, and the importance of familiarization to the crews.

The research method that is use in writing this minithesis is descriptive qualitative method, with analysis method using Fishbone and Fault Tree Analysis. Sources of data from this study are from observations and record of operation during the author's experience joining Special Operations in August 2016 onboard LNG Golar Mazo.

The results shows that: 1.) Procedure to prepare LNG cargo tank onboard LNG Golar Mazo in order to make it safe to entry during dry dock inspection is by 4 steps of Special Operation. 2.) There are some obstacle factors happened during Special Operation in LNG Golar Mazo as follows: Machine, Method, and Manpower.

The author's suggestion for the Special operation is that it must be carried out in accordance with Ship's Cargo Handling Manual, IGC Code, and SIGTTO to create a safe entry tank, with safe operation, and avoid events that may endanger the ship and its contents.

Keywords : LNG, Special Operations, Safe Entry, Familiarization