

ABSTRACT

Yusuf Pria Utama, 2016, NIT: 49124466. N, “*Optimizing the Role of the inert gas handling systems hearts Crude oil Payload in MT. Jag Leela*”, *Nautical Thesis, Diploma IV Program, Merchant Marine Politechnic Semarang. Material Adviser (I): Capt. Arika Palapa, M.Si., M.Mar. and Material Adviser (II): Nur Rohmah, S.E., M.M.*

Inert gas system is a low-oxygen-containing gas that is used to set the atmosphere in the tank and unloading, which prevents the formation of a combustible mixture, the resulting flue gas boiler pushed into the tank to suppress maximal oxygen in the tank is below 8%. Not optimal operation of the inert gas system can hinder cargo handling crude oil, because it is then the need for quick action so that operations run optimally and the maximum is to carry out training, job evaluation, familiarization and the correct operation of the appropriate instruction manual book. The purpose of this study is to determine the impact that would occur if the inert gas system is not optimal, and to know how to optimize the inert gas system of cargo handling crude oil in MT. Jag Leela.

Research using SWOT analysis. In this case the author using the method of SWOT analysis. Where this method is a systematic way to determine the factors and strategies that best describe the match. This analysis is based on the assumption maximize the strengths and minimize the weaknesses and the opportunities and threats to determine the direction of the right strategy in achieving optimal operational.

The results showed that, as a result of the inert gas system is not optimal, namely, fires and explosions in the tank and unloading, cargo handling processes crude oil inhibited. To anticipate this action it must be done so that the system is running optimally, namely, implementing familiarization inert gas and the operating system is based on manual book.

Keyword: *Inert Gas System, Crude Oil*