ABSTRACTION

Dimas Satryo Bintoro, 2016, NIT : 49124443. N, *"Cargo Handling Optimalization Liquified Natural Gases (lng) onboard LNG-Carrier Tangguh Palung With SWOT Analysis To Prevent Dangerous Risk"*, Nautical Thesis, Diploma IV Program, Merchant Marine Polythecnic Semarang.. Material Adviser I: Capt. Agus Hadi Purwantomo, M.Mar. dan Methodology and Writing Advisor II: H. Rahyono, S.P1, M.M, M.Mar.E.

LNG/C Tangguh Palung is a trading vessel that used as sea transportation to carry good inshape of *Liquified Natural Gases*. This thesis writing focused on special attention given to dangerous goods liquified *methane (CH4).* The handling of this goods is different with other goods. The points of this research that focused on the reason why it is needed to optimalyze the charging of dangerous goods *LNG (methane)* and how is the effort of the officer and ships crew in applying the international regulation so it will work optimally and also safe from dangerous risk

In the dangerous goods handling, landside will send the stowage plan toward the vessel first through email, after that, 1st Mate will analyze when the vessel is going to be charged. That analyze is done based on the *Cargo Handling Guidance* and ISGOTT. After all of that have been corrected, then the 1st Mate done the *Risk Assessment* to all activity that will be done onboard ship in discharging process at port. After that, optimalization process in charging the dangerous goods done by *internal strategic factors analysis summary* (IFAS), *external strategic factors analysis summary* (EFAS), dan *strength weakness opportunities threat* (SWOT).

Strength and chances that owned used to cope with all the weaknesses and threats that exist. SWOT analysis will come up with some strategy in the optimalization of dangerous goods charging process *liquified natural gases (LNG)* to prevent the dangerous risk onboard LNG/C Tangguh Palung.

Keyword : Dangerous goods, *liquified natural gases*, *risk assessment,* IFAS, EFAS, SWOT