ABSTRACT

Eka Setia Budi, 2017, NIT : 49124596.T. "*Analysis of decreasing cargo handling system work on Ammonia (NH_3) gas reliquefaction process on MT. Pupuk Indonesia*", Diploma Program IV, Teknika, Semarang Merchant Marine Polytechnic, Supervisor I : H. Amad Narto, M.Pd, M.Mar.E. Supervisor II : Henny Wahyu W, M.Pd.

Reliquefaction is process of vapour gas aimed to keep the temperature and pressure inside the tank. Operation of this system as an efforts which is conducted to overcome the obstacle in order to keep the Ammonia charge in a liquid state.

In the descriptive method using urgency, seriously, growth tool is taken the highest assessment of priority and specific problem and comparison of each problem.

From problem formulation researcher conclude according to the conditions that occurred on MT Pupuk Indonesia when did the research on the decline of cargo handling system performance on the reliquefaction process of Ammonia gas the factors caused the decline of reliquefaction plant performance based on the highest assessment of specific problem caused by the lack of compression cargo compressor due to scraped of suction and delivery, lack of maximum cooling glycol and piston wear the impact is reliquefaction process takes longer and uncontrolled tank condition effort to maximize compressor performance are routine to check according running hours, maintenance and repair according to the manual book.

Keywords: *Reliquefaction*, method *urgency, seriously, growth, cargo compressor*