

## ABSTRACTION

**Zahrina Nur Shabrina**, 2018, NIT 51145299 N, " *Handling Slowness of Butane & Propane Shipping Process of MT vessels. Pertamina Gas 2 at Jetty # 15 Assaluyeh, Iran* ", Nautika Study Program, Diploma IV Program, Polytechnic of Semarang Sailing, Supervisor: I. Captain Arika Palapa, M, Si, M.Mar and II. H. Amad Narto, M.Mar.E, M.Pd

VLGC vessel Pertamina Gas 2 is a fully refrigerated type gas vessel designed to transport LPG in large quantities. LPG consists of butane and propane which is a gas charge in liquid form. The process of loading LPG on VLGC vessel Pertamina Gas 2 is done Based on the results of research from the author, the loading process in VLGC vessel Pertamina Gas 2 experienced delays due to some constraints both from internal factors and external factors. The purpose of the authors do this research is to find out why there is a delay during the loading process took place and how the effort to handle the delay.

In the writing of this thesis the author uses the method of fishbone analysis and fault tree analysis and data collection by observation by observing the object of research, interview and supported by documentation method. Based on the results of the research that in handling the temperature and pressure of the cargo tank is carried out by running the reliquefaction system in the preparation of the load tank, conditioning the load tank to be ready to load and always pay attention to the increase or decrease in temperature and tank pressure during loading. While the constraints in the form of heat payload from the party pengember payload and less optimal performance reliquefaction system due to interference on the condenser payload. So the effort to overcome it is to immediately communicate with the provider and install vapor return line in loading.

In the end the results of research on the handling of sluggish loading process butane & propane ship MT. Pertamina Gas 2 in Jetty # 15 Assaluyeh, Iran is important to be implemented on board for the purpose of creating a fully refrigerated and accountable LPG loading and can be drawn a conclusion or as an evaluation for reference.

**Keywords: fully refrigerated LPG, temperature and tank load pressure, loading**