

ABSTRACT

Prastowo Kurniawan, 2018, NIT : 51145355 T “*Decreased nitrogen production in generator nitrogen systems on MT vessels. Gas Widuri*”, Diploma Course IV, Merchant Marine Polytechnic of Semarang, Lecturer I: H. Sumarno PS, MM., M.Mar.E., Lecturer II: Dr.Eko Nugroho Widjatmoko, MM., M.Mar.E

Gas carrier is one of the vessels that is needed and used specially considering the charge flowing as dangerous because it can be carried out easily. Therefore, on a gas carrier vessel equipped with special equipment for hazard hazards, the vessel is equipped with a gas-inert gas system. In addition there is one plane that works together namely nitrogen generator.

Nitrogen generator aircraft is a device that serves to produce nitrogen gas which can be used for annular vessels of washing chambers, cleaning of cargo lines, gas cargo compressor shaft gland sealing, gas pipe engine chambers, and ventilation should be a formal fire extinguisher to avoid damage to fire hazard and danger during daily activities. In the implementation of the study, the authors use case studies that aim to look for certain aspects or specifically to obtain the existing data in accordance with research objectives. The author uses communication methods, interviews, documentation, and literature studies to obtain data related to generators that are useful to support the smoothness in the making of the thesis.

At the same time continuous work will also address problems in running, using nitrogen generators. One factor that is often used is generator nitrogen generator, because the 3 factors that affect the production are: 1. air supply from the compressor that decreases from the valve unloader jammed and the magnetic conditions are not feasible, 2. Filtration of air / filter dirty and clean air 7.7 bar of the compressor inhibited, 3. The value of the nitrogen dew point of the gas must reach the temperature of -70 oC and the oxygenation should be below 0.25%, therefore it is indispensable and continuous checks that the components work properly and it is not possible to operate the nitrogen generator automatically . overall.

Keywords : Nitrogen generator, decline production of nitrogen.