

## ABSTRACT

**Puguh Andi Setiawan**, 48113963 N, 2017, “*Optimization of navigation duty in working out the navigation on the condition appears to be limited due to haze in MT.Anggraini Excellent*”, Diploma IV, Nautika, Politeknik Ilmu Pelayaran Semarang, Pembimbing: (I) Capt. Dwi Antoro, M.M., M.Mar. (II) Sri Suyanti, S.S.,M.Si

The main objective in guard duty is to seek a ship in a voyage to walk safely from one port to another. In such achievement is determined by internal and external factors. 80% of accidents at sea are caused by human, but external factors such as natural waters and is also very influential for ship operations and needs special attention.

The method used by the researchers to address the problem is the method of FTA (Fault Tree Analysis) to generate descriptive data to illustrate and describe the object under study. Researchers used data analysis techniques ultrasound (Urgency, Seriousness, Growth) to determine the issue a top priority when navigating in bad weather so you can find troubleshooting. From the calculation of priorities problem then the most influential official interference with the exercise motion case is the educational background and experience in creating ship officers and professional leaders.

Limited water conditions seem very influential on activity navigate the ship. The ability of official leaders keep in readiness and when implementing navigation is necessary, so as to anticipate and minimize accidents akibat interruption in the service case. The researchers suggest that an officer is knowing how to exercise motion Keep on condition seemed limited and implement the rules that apply.

Keywords: navigation duty, seems limited, FTA method, USG method