EFFECT OF MODIFICATION OF FERRY TIRTA KENCANA TO FIRE RISK POTENTIAL

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Abstract

MV. Tirta Kencana has 8 decks, namely the double bottom, second deck, vehicle deck, intermediate deck, 1st accommodation deck, 2nd accommodation deck, boat deck, and topside deck. On the 1st accommodation deck in the first room there are 3 rooms for accommodation that is on the front of the ship, the middle ship, and back of the ship. The accommodation’s room at the back of the boat will be done with the changes as making room for the vehicle. This change will impact on the fire control plan changes on the vessels and also safety plan is needed so that the appropriate design. Design of fire control plan and safety plan this will affect the evacuation plan that will be done when the occurrence of fire on this ship.

Design of fire control systems on this Final Project is based on the rules that apply, such as SOLAS and IMO. In addition, other considerations also used in the design of fire control systems it. After the fire control design, the designed safety plan and also rescue plan (evacuation plan) in MV. Tirta Kencana.

Rescue plan (evacuation plan) is influenced by three factors, namely the length of the track, the number of passengers, and time of usage of safety equipment (life jacket). Of the rescue plan was designed during the evacuation time is 60.93 minutes in normal conditions and 90.93 minutes with a factor to consider panic.

Keyword : fire control, safety plan, evacuation time.