ANALYSIS OF TECHNICAL AND SAFETY ASPECT USE BUSBAR TRUNKING FOR ELECTRICAL INSTALLATION OF UTILITY VESSEL 52 METER

Name: Rizki Satria
NRP: 4209 100 042
Department: Teknik Sistem Perkapalan FTK – ITS
Tutor: Ir. Sardono Sarwito M.Sc
Indra Ranu Kusuma ST., M.Sc.

Abstract

Innovation in the distribution needs of electric current produces an alternative media that is known as a cable replacement busbar trunking. Busbar trunking is a compact component (compact size) serves as the distributor, conductor, or as an electric current-carrying media that offer simplicity in design, installation, and maintenance. In its application, busbar trunking has been installed on the building land, such as buildings, factories, and others. So that required further analysis of the application of busbar trunking systems in the sea, like a ship. Analysis carried out by the technical and safety aspects of the installation on the ship’s electrical system utility refers to the 52-meter-class standards in ship safety. The results of the analysis lead to the conclusion that the busbar trunking system is compatible if applied in the ship because it has a level of safety in accordance with regulatory requirements of the class.

Alternative media; busbar trunking; compact size; compatible; conductor; class; electrical installations; safety; ships; technical