STUDY OF THE EFFECTS OF SHIP’S SURFACE AREAS SUBMERGED IN SEA DUE TO SHIP’S WEIGHT CHANGES ON POTENTIAL IMPRESSED CURRENT THAT PROVIDED TO OPTIMIZE ICCP SYSTEM SOFTWARE OF KAMOJANG SHIP

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Abstract
Protection of the hull by using impressed current (ICCP) in principle is the protection by giving electrons to the body of the ship with assistance from outside sources of electricity that comes from permanent metal anode. The amount of force given the potential impressed current is adjusted by a submerged surface areas due to the effect of changes in weight ship. Conducted research on the study of the influence area of the vessel due to changes in wet weight of the vessel to the amount of force given the current potential. Variables used in this research is the surface area of the submerged hull weight of sea water when full load and at the empty weight of the load. By using the calculation according to standards applicable, potential impressed current will be obtained when the weight of the cargo at the time of full and empty weight of the load, so it can analyze the relationship between the extent of wet weight due to potential changes in forced flow is given.

Keywords: ICCP methods, wetted area of the ship, the weight of the ship, impressed current’s potential.