Abstract

Corrosion is a natural process that cannot be avoided but can be prevented or minimized. Corrosion, which in layman's terms is called corrosion, has resulted in a loss caused either directly or indirectly. Corrosion is a serious problem in the material world and is very harmful because it can reduce the ability of a construct to carry the load. For those reasons, the existence of a system of protection corrosion on a structure. Protection corrosion system on a structure, especially in jacket structures, there are two systems of protection that are often used: the Sacrificial Anode system and Impressed Current system. Both systems are the focus of this thesis to compare technically and economically. The Sacrificial Anode system and ICCP. From this comparison system that technically the ICCP and Sacrificial Anode technical standards caused system design, based both on standard DnV his B-401 and RP NACE RP 1076. But economically, the Sacrificial Anode system cost is Rp 198,880,000.00, while Impressed current system is Rp 135,759,000.00. ICCP system so that more saving 61,301,000.00 of sacrificial anode system.

Keywords: cathodic protection, anodes umbal jacket structure, Current Impressed cathodic Protection, Sacrificial anode.