ANALIZE OF ELECTRICAL POWER NEED IN OFFSHORE SUPPORT AND MAINTENANCE VESSEL

Name : Radiansyah Sitepu
NRP : 4207 100 501
Departement : Marine Engineering FTK-ITS
Supervisor : 1.Ir.Sardono Sarwito,MSc
               2.Indra Ranu Kusuma,ST,MSc

Abstract

Generator is an auxiliary machinery that functioning for supply all requirement of existing electrics on board. Planning and election of generator capacities have to can fulfill requirement of ship electrics in its operational. Besides, election of generator also have to pay attention effectiveness of selected generator energy because will relate to the problem of price or invesment. Therefore, hence done by a re-calculation about generator capacities pursuant to situation in the real condition, by using load factor of the available motor equipments and also log book generator representing record-keeping of voltage, current, and also cos phi at every condition of ship operational. Afterwards compare requirement of electricity between design early ship with situation in the real condition. In the end, can be proved theoretically that electrical design system in ship can be applied manifestly and pursuant to going into effect so that at the time of installation of electrics installation in target and ship in the future can be relied on and also satisfaction to ship owner.

Keywords : Load Factor, Generator, Electrical System