USING THE TECHNOLOGICAL EQUIPMENTS AVAILABILITY SILL TO EVALUATE THEIR LIVE CYCLE TIME

Ionut Ciprian Popa [1], Octavian Lupescu [1], Ramona Scurtu Popa [1] & Ovidiu Sava [1]

[1]Technical University "Gheorghe Asachi" of Iasi-Romania, Department of Machine Manufacturing Technology

Corresponding author: Ionut Popa, popa_ionut_ciprian@yahoo.com

Abstract: This paper's objective consists in using the availability sill calculation methodology to evaluate the replacement or acquisition time of a new plant, when the oldest suffer periodical and systematic failures. The achievement of the principal conditions that influence the size of the equipments life cycle, takes into account: its reliability, the accessibility degree to effectuate maintenance, the management capacity and spare parts stock utilization, the prosecution possibility and/or outsourcing the service activities. The availability sill of such an equipments, insufficient used at their entire capacity (technical, economical, managerial), has a directly influence over the size of their life cycle. The researches base consists in the fact that the tenure of such equipment constitutes a charge for the company, generating much more losses than winnings, fact that justifies the interest of the researches in the area.

Key words: availability sill, reliability, equipment, life cycle time, maintainability