ABSTRACT

PT. Kertas Padalarang is a company engaged in manufacturing. Paper production at PT. Kertas Padalarang from 2014 - 2018 has decreased. High corrective maintenance activities at the company affect the level of paper production, the high level of corrective maintenance activities has an impact on increasing factory downtime. The machine that has the highest frequency is the machine escher wyss based on this machine is used as an object in this study. Followed by calculations using the Fault Tree Analysis (FTA) method obtained the results of the dryer part subsystem as the most critical subsystem. Followed by the calculation of the Risk Priority Number (RPN) with the results obtained 3 critical components namely flexible hose, bearing and vant belt. Calculation of the proposed availability value on critical components of the Wyss escher engine has increased respectively, including flexible hoses increasing by 4.2%, bearings by 0.2% and vant belts by 4%. The critical component calculated the reliability value of the proposal to be used as a time interval on scheduling proposals resulting from the proposed component scheduling. Flexible hoses are inspected with a frequency of 33 days, bearings are lubricated every 54 days and the belt is inspected every 45 days.

Keywords: maintenance, fault tree Analysis, risk-based maintenance, risk priority number.