

ABSTRACT

PT Serana Indah Prakasa is a company engaged in the printing industry which located in Bandung since 2014. This company produces various printing products such as business cards, calendars, catalogs, posters, invitations, brochures, packaging, and so on. Heidelberg Speedmaster Machine is a printing machine used by PT Serana Indah Prakasa for the production process. Because the use of the machine is carried out continuously with fairly high working hours, around 11-13 hours per day, components of this machine are often damaged. The most frequent components damaged on the Heidelberg Speedmaster engine are the plate cylinder and blanket cylinders. Because the company implements corrective system maintenance where maintenance is only carried out when the machine is experiencing damage, the maintenance costs incurred will be greater. Because of the high cost of this maintenance, the company uses machine components of lower quality, this also affects the frequency of component damage that occurs. Therefore, preventive maintenance activities are needed to prevent and minimize damage to machine components that will cause various unwanted losses. The method used in this study in discussing the determination of the maintenance schedule, interval maintenance time, and suppression of maintenance costs using the Reliability Centered Maintenance (RCM) method. Decision-making on component policies that will be used in this maintenance process will be carried out with the help of the Analytic Network Process (ANP) method.

Keywords – Maintenance, Corrective Maintenance, Preventive Maintenance, Reliability Centered Maintenance, Analytic Network Process.