

ABSTRACT

PT. Garut Makmur Perkasa is one of the raw leather industry in Garut Regency, namely Sukaregang, which has been managed since 1990. Based on data on the time of damage from January 2017 to December 2019, it was found that a Splitting machine is a machine that has a high frequency of damage. The splitting machine at PT.GMP is one of the machines used to perform skin splitting according to the company's thickness standards. Based on calculations using failure mode effect analysis (FMEA), it is found that the critical subsystems are the knife, table, and bearing roll. So that subsystem needs further research. Researchers conducted research using the Risk-Based Maintenance (RBM) method to determine the value of the risk borne by the company if the critical subsystem fails to operate. Based on data processing results using the RBM method, the risk value for the splitting machine was IDR 4,890,817.09 or with a risk presentation of 0.059% The risk percentage exceeds the tolerance limit that has been determined by PT. GMP, it is necessary to suggest maintenance time intervals for the knife subsystem 192.2 hours, table 702.1 hours, and bearing roll 1381.95 hours.

Keywords: Maintenance, Risk Based Maintenance (RBM), Maintenance Time Interval