ABSTRAK

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ANALISIS PEMELIHARAAN MESIN PRODUKSI DENGAN METODE RCM (*RELIABILITY CENTERED MAINTENANCE*) PADA PT. JATISUNGKAI ESTETIKA

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Keyword: *Maintenance Engine*, RCM (*Reliability Centered Maintenance*), *CNC Engine*, *Panel Saw Engine*, FMEA (*Failure Mode Effect Analysis*), LTA (*Logic Tree Analysis*), *Task Selection*.

(xii+39+*Attachment*)

PT. Jati Sungkai Estetika produces various kinds of furniture which will be distributed to hotels and apartments. Machines that are used continuously and for a long time are a big influence in causing decreased performance of the machine at a certain time. This incident will clearly disrupt the production process, be the cause of work accidents, and can cause major losses for the company itself. To ensure that the machine is operated optimally, a machine maintenance system is needed. The aim of maintenance is to maintain the reliability of the machines with the aim of ensuring that they can still be operated properly. Therefore, the right strategy is needed and good maintenance activities must be carried out consistently and precisely in order to maintain the continuity of the production process.

PT. Jatisungkai Estetika has not used any method for maintenance on its machines so this writing was written with the aim that PT. Jatisungkai Aesthetics can use a method for maintaining its machines using the RCM (Reliability Centered Maintenance) method. After analyzing production machine maintenance using the RCM (Reliability Centered Maintenance) method at PT. Jatisungkai Aesthetics. It was found that CNC machines or machine codes with code A, HPL-180 panel saw machines with code B, HPL-380 panel saw machines with code C experienced various damage related to the spindle unit, router bit unit and blade. In analyzing the damage, a selection is made using a selection guide which consists of several criteria. Based on the selection guide, some damages meet certain criteria and can be overcome effectively using appropriate tasks. However, there are also some damages that do not meet the criteria and cannot be resolved using the available tasks. Therefore, the selection of tasks to overcome damage to these machines must be carried out carefully so that they are effective and appropriate according to the needs and characteristics of each machine.

LIST OF REFERENCES (2003 – 2021)