ABSTRAK

Pada analisa perawatan mesin di PT Ori Polytec Composites cikarang yang sistem perawatannya menggunakan sistem preventive dan korektif dimana dalam pelaksanaannya masih terdapat masalah yaitu memilih tindakan perawatan yang kurang tepat dan aktivitas perawatan yang belum terprogram. Tujuan penelitian ini agar dapat mengurangi nilai downtime. Untuk mengetahui masalah tersebut digunakan metode Reliability Centered Maintenance (RCM) dan Maintenance Value Stream Map (MVSM). Hasil dari analisa menggunakan metode RCM bahwa tindakan perawatan yang tepat mengacu pada komponen kritis yaitu magnetik kontaktor dengan nilai RPN sebesar 96, fuse/sekering dengan nilai RPN sebesar 40, thermal overload relay dengan nilai RPN sebesar 32, mata bor dengan nilai RPN sebesar 196, spindle motor dengan nilai RPN sebesar 144, laker/bearing dengan nilai RPN sebesar 135, elevating motor dengan nilai RPN sebesar 112 dan hasil analisa metode MVSM adalah nilai persentase efisiensi perawatan dari komponen kritis sebelum dan sesudah perbaikan, pemilihan tindakan perawatan yang tepat, pembuatan SOP

Kata kunci: Downtime, Maintenance Value Stream Map (MVSM), Reliability Centered Maintenance (RCM), Standar Operational Prosedur

ABSTRACT

In the analysis of machine maintenance at PT Ori Polytec Composites cikarang, the maintenance system uses a preventive and corrective system, where in practice they have some problems, namely choosing inappropriate maintenance actions and maintenance activities that have not been programmed. The purpose of this research is to reduce the value of downtime. To find out these problems, the Reliability Centered Maintenance (RCM) and Maintenance Value Stream Map (MVSM) methods are used. The results of the analysis using the RCM method showed that proper maintenance measures refer to critical components, namely magnetic contactors with an RPN value of 96, fuses with an RPN value of 40, thermal overload relay with an RPN value of 32, drill bit with an RPN value of 196, spindle motor with an RPN value of 144, laker / bearing with an RPN value of 135, elevating motor with an RPN value of 112. Other results of the MVSM method analysis were the percentage value of maintenance efficiency of critical components before and after repair, selection of appropriate maintenance actions, making SOP.

***Keywords**: Downtime, Maintenance Value Stream Map (MVSM), Reliability Centered Maintenance (RCM), Standard Operational Procedure*