“Analysis on Determining the Optimum Machine Maintenance and Critical Component Replacement Period in PT.Philips Indonesia”

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Abstract

The continuity of the production process is influenced by several things such as human resources and conditions of the existing production facilities. By optimizing its resources, the company will be able to fulfill order.

PT. Philips is one of the largest lighting manufacturers in Indonesia. For companies, the machines has an important role to support the ongoing production process. Maintenance is one of important factor in supporting the continuity of the production process. Maintenance policies applied by the company is preventive maintenance. Although with this alone is still not enough. The product defect and major damage report still found. This defect was observed using the control chart and FMEA to see the components that influenced to defect.

Therefore we need to define preventive maintenance intervals on the machines and optimally preventive replacement interval on the components. These preventive maintenance and replacement interval is expected to reduce the number of defect products and the number of damage machine.

Keywords: preventive maintenance, preventive replacement, control chart, FMEA.