ABSTARCT

PT. Pindad (Persero) is a manufacturing industry company which operates in the field of Alutsista (Alat Utama Sistem Persenjataan)and Commercial Products, one of which is in production / manufacturing. PT.Pindad (Persero) manufactures various kinds of weapons and ammunition products, explosives, transportation facilities and infrastructures, special vehicles, component products and heavy equipment products. In the production process, most of the production activity uses machine. The problem faced with is damage to Toshiba machines in the 2017-2019 period. The purpose of this study is to determine the consequence of the machine's unreliability.

The method used is The Cost Of Unreliability to determine the company's losses caused by machine failures and the Cost Of Poor Maintenance method to determine the performance of maintenance maintenance. From the results of data processing based of the risk matrix can be seen for selected subsystems that have high-risk values obtained, Coolant, Hydraulics and Spindles so that in this study focuses on the three subsystems selected.

Based on the results of calculations using the COUR method, obtained corrective money lost value of Rp. 162.162.439,63 and downtime money lost is Rp.217.248.523,16.Based on the analysis of COPM, can be found, which costs are included in the cost of conformance and cost of nonconformance, then a cost of nonconformance can be obtained at Rp. 256,528,359.16 there are four activities that need to be reduced so that it is greater than the cost of conformance of Rp.253,383,960.00 so that it can be obtained that there are two types of activities that need to be optimized. Activities that need to be optimized are lubricant, maintenance activities and other material maintenance activities such as clothes and cleaning solutions. On the other hand, the activities that are need to be reduced are activities of exchange parts/equipment, lost production time, logistics activities and working time for maintenance activities.

The difference in the cost of the equipment used affects the difference in the results of the COUR study with the exsisting results. So that further research is needed on the value of COUR that needs to be done related to getting the quantitative data needed including more cost data and more accurately describe the real condition of the company, as well as by implementing the proposed maintenance activities using the COPM concept so as to improve maintenance performance company. It is also highly recommended to use acceptable and sustainable COUR and COPM analysis.

Keywords: *Maintenance, Cost Of Unreliability, Corrective, Downtime, Cost Of Poor Conformance*