

ABSTRACT

PT. Pindad (Persero) is a manufacturing industry company engaged in the manufacturing of military products and other commercial products or non-military products in Indonesia. PT. Pindad (Persero) is engaged in the production / manufacturing that produces weapons, munitions, special vehicles, forging castles and railroad tools, heavy equipment and commercial explosives. The study was conducted at the Forging and Praska department of the Cast and Rail Forging Division (TC-AP) on the machine in the E-Clips production process because the E-Clips production is one of the active and often carried out production in the division, with active production it is necessary repaired if the engine has a breakdown. Maintenance of machinery or equipment is one important element in the field of manufacturing industry production. The main goal of maintenance is to prevent failures on the machine that result in losses to the company. The engine studied is the SHOT BLAST MACH MWJ 9/10 engine with a total damage of 93 times during 2016-2019. The purpose of this study is to determine the value of company losses due to machine reliability using the Cost of Unreliability method. From the results of COUR calculations, the cost caused by unreliable based on corrective time is Rp 3.299.079.131,24 and based on downtime or the length of time the subsystem stops at Rp 7.220.699.784,37. After COUR calculations, a business consequence search is made for the company to use the business risk matrix and the results are all of the subsystems namely in the red category, so companies need to take action to prevent higher consequences.

Keywords: Cost of Unreliability, Maintenance, Corrective, Downtime, Business Consequence.