

ABSTRACT

Aircraft Industry is a company engaged in the aircraft component production which is located in Bandung. One of the most aircraft component products produced in 2018 is the NC212 aircraft component. In the production process, Toshiba BMC-100 (5) E engine is often broken. In the process of repairing the machine, Aircraft Industry has a delay in the engine repair process that caused the engine off in a long period of time, this was caused by the unavailability of spare parts in the warehouse. One of the causes of the unavailability of spare parts is the uncertainty of the spare part ordering lead time. The purpose of this study is to determine the inventory policy of Toshiba BMC-100 (5) E Machine spare parts so that stockout problems due to uncertainty in lead time can be minimized. In this study, Toshiba BMC-100 Engine spare part inventory policy proposal (5) uses continuous review (s, Q) method with poisson distribution in modeling lead time demand to determine the optimum reorder point value and order amount. The results of the proposed inventory policy provide increase fill rate by 100% compared to the actual conditions.

Keywords: Inventory policy; spare parts; Uncertainty Lead Time; Continuous review (s,Q), Inventory cost.