

## ABSTRACT

Maintenance supposed to guarantee tools supply whether machine in good or bad condition. For fulfilling that aim, PT Dirgantara Indonesia Aerostructure Dept has maintenance activity for their machines. One of them is Cincinnati Double gantry Multipurpose (Cincinnati-DGMP). That machine is milling machine that being key facility for P T Dirgantara Indonesia. It has five systems and the most failure rate is mechanic system. Mechanic system has nine subsystem include of servo axis, drawbar, tacho, lube, resolver, fan, motor, and hydraulic. Using Anderson Darling Test can be known the representative data. Finding maintenance activity by task appropriate what kind of best task can be taken. For this stage using RCM with result *scheduled on-condition task*, 5 components for *scheduled discard task*, 10 for *scheduled restoration task*, dan 1 komponen dengan *scheduled failure finding task*. Using RBM method can be gotten time should be arrange in 10000 hours. For example like servo axis, conclude that proposed interval 1600 hours, *maintenance cost* Rp 6.713.456,793, *cost of risk* Rp 9.688.675,56, and *summary of cost* Rp 16.402.132,36. Finally, determine tools supply. It consist of once per year with combination 144 for bearing, 136 for O-ring, 96 for bolt dan 36 for seal dan 38 for fuse, twice every year 96 for bearing, 85 for O-ring, 61 for bolt and 27 for seal and 19 for fuse, and third every year 64, 60, 43, 15 dan 13.

Key : Maintenance, RBM, RCM, Marginal Assurance