

ABSTRACT

PT. Dirgantara Indonesia is a state-owned company engaged in the manufacture of aircraft and helicopters. Airplanes and helicopters are one of the transportation systems that have a good security system so that the manufacturing process requires accuracy and must comply with existing standards. PT. Dirgantara Indonesia implements a make-to-order system so that the aircraft will be made after the order is received. Currently PT. Dirgantara Indonesia is carrying out a project to manufacture the NC212 aircraft. The NC212 aircraft is divided into three main parts, namely the nose, main body, and tail. Based on data collection at the Component Assembly (CA) division, it was found that in the manufacture of the tail section of the NC212 RearCone, there was a delay which resulted in the process of making the NC212 aircraft not according to the schedule plan. The schedule is one of the important parameters in determining a project, in addition to cost and quality. In solving this problem, a control process is needed related to the manufacture of the NC212 aircraft RearCone using the Critical Path Method (CPM). The purpose of this research is to apply the CPM method in scheduling the NC212 rearcone manufacturing project for similar projects. CPM is used to identify the critical path that exists in the manufacturing process of the NC212 RearCone aircraft and obtained 44 working days with 19 critical activities.

Keywords— Project Scheduling, Critical Path Method, Project Schedule Management