

ABSTRACT

PT Dirgantara Indonesia is a state-owned company engaged in the field of aerospace. Today company has a problem on delivery Tailboom. Tailboom cannot delivery on time. Tailboom is a tail of helicopter. This problem occurs because late on Tailboom component, Junction. Junction component was late on assembly process due to lack of part on assembly line. This caused by uncomplete work package that delivered from fabrication.

To reduce lateness in assembly Junction, kanban is needed as production control system. Kanban is a tools of Just In Time for pull production system. Using kanban system can control the production according to the quantity needed and in the right time. The results of this study is design Electronic Kanban system using constant quantity withdrawal system method which is implemented in fabrication, assembly store and assembly line. Constant quantity withdrawal system method is used to calculate the required kanban.

The result from simulation using electronic kanban in assembly Junction can reduce lateness for 56% that caused by part faktor. It caused by using electronic kanban level stock in assembly store is maintained, material and capacity in fabrication is available. In other that, electronic kanban give the information flow between department is integrated with each other so it easy to know what errors that occur in real time. Based on that reason, production control can make a decision related on that problem. Electronic kanban can inform what, how, and when to produce parts or component.

Keywords: *Constant Quantity, Electronic Kanban, Junction, Lateness, Tailboom*