

ABSTRACT

PT Dirgantara Indonesia is a State-Owned Enterprise (BUMN) that produces various types of aircraft to meet the needs of civil aviation, military operator and special mission needs. PT. Dirgantara Indonesia has several production divisions and those experiencing delays, one of which is production in the machining area which will be the object of research. On the junction assembly line, job stops often occur due to the late delivery of the components making up the components, one of which is the part that comes from the machining area fabrication line. The junction component is a component for making Tailboom in the MK-II project. The cause of the delay in the delivery of parts is due to delays in the process of making parts in the machining area caused by several factors, namely methods, humans, machine, and materials. To overcome the problems that occur, it is necessary to have a control device on the production floor in the form of a system, namely kanban. It is said to be a production control tool because kanban is an information system that controls the production process, so this study proposes an electronic kanban system using the Constant Work in Process method which is used to calculate the number of kanban cards in circulation. Kanban is a tool from Just in Time for pull production systems or pull systems. Using kanban can control the production flow according to what is needed, in what quantity is needed and at the right time. Electronic kanban design starts from raw material warehouse, fabrication to assembly store. The results of the study after conducting simulations using electronic kanban on the machining area fabrication line were able to reduce delays by 52% due to method factors.

Keywords : Electronic Kanban, Constant Work in Process, Machining, Lateness