ABSTRACT

PT. Dirgantara Indonesia is a state-owned company engaged in the aircraft manufacturing industry. The company is currently facing difficulties in meeting the customer demand of Tailboom MK-II in a timely manner. This problem occurs due to lack of parts needed to assemble the components in Sub Assy. This happens because there is a delay in obtaining information about the parts needed and absence of notice about the availability of parts needed. As a result, components needed can not be Finished at the right time thus demand can not be fulfilled and delivery as targeted every year . For this problem to be resolved, a system that can manage the availability of parts on the assembly line in the right amount and at the right time and also able to control information flow between departments in charge and access informations in real time is needed. Therefore, the research is to provide suggestions for designing e-Kanban or electronic Kanban systems with constant-quantity methods. The results of this study are the e-Kanban system which is able to display a report on the Actual work status on the assembly line, classify the information needed on the card, and check the progress in every departments in charge so that further actions can be taken accordingly to the informations provided. Based on the simulation that has been done, it is obtained that Electronic Kanban can reduce lateness in Pylon Sub Assy Assembly Line up to 52%.

Keywords : Kanban, E-Kanban, Constant-Quantity, Pull System