

ABSTRACT

PT XYZ is one of companies under BUMN which is focuses on the field of electricity providers. To be able to perform the instalation, the company need components who shipped from vendor and then stored in the warehouse. Meanwhile, components warehouse PT XYZ is often experienced delay in issuing component, it is evidence by high activity cycle time compared to standar time from the company. One of the cause of delay time in the activity of warehouse PT XYZ is because of the non-value added process to searching the location of the component. In addition, the randomize component allocation makes operator hard to find the components and warehouse become irregular.

The first step taken to reduce the delay is to map the flow process and information with Value Stream Mapping (VSM) and Process Activity Mapping (PAM). Once the mapping is done, it will get the standart time and the process flow that occurs in the warehouse at PT XYZ. Based on the result of PAM, obtained a non-value added activities that occur in searching the loaction of component is quite large. So it would be to design the proposed improvement to make the delay time on PT XYZ warehouse activities can be reduced. Improvement taken to reduced delay time are classification using FSN Analysis, Slotting, Zonafication on every component.

Proposed improvement plan of storage allocation are mapped using Value Stream Mapping (future state) resulted in reduction in the delay time 18% and increase in value added activities 17% of the total warehouse activity time is 1241.52 seconds

Keywords: Warehouse, Slotting, FSN Analysis, Zonafication, Class Based Storage