ABSTRACT

PT PINDAD is one of the BUMN (Badan Usaha Milik Negara) part of the

manufacturing industry in the field of Primary Equipment and Weapons Systems

(Alutsista) and commercial product. One of the products in the field of transport is

the Air Brake System consists of several assembly, one Isolating Cock assembly

consisting of Rumah Isolating Cock, Flens, Penutup, and Baut Ventilasi.

Makespan and order completion time limit makes the company trying to fulfill

orders on time. The work done by the company is adding shifts. Lot size transfer

batch used can affect the makespan. Makespan caused lengthy order completion

using First Come First Served rule regardless of lot size transfer batch.

In achieving the goal of minimizing makespan, it is proposed scheduling algorithm

Campbell, Dudek, and Smith (CDS) with calculated the lot size transfer batch

Rumah Isolating Cock component with sublot size 6 units and 6 units, Flens

components with sublot size 9 units and 3 units, Penutup component with sublot

size 4 units and 8 units, and Baut Ventilasi components with sublot size 12 units,

repeat for five times so 60 units Isolating Cock can minimizing makespan from 117

hours or 18 shifts to 45.8 hours or 8 shifts thus saving the time of completion of

60,85%.

Keywords: CDS, Transfer Batch

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