ABSTRACT

Pindad company engineering division got different amount for product order

every month. It caused the production in engineering division got many difficulties

in controlling production stock. This caused under capacity problem which later

caused unbalanced work load for every machine in engineering division. Any

incoming order to this division is special product that had been ordered by

specific company which called engineering to order. It caused differentiation for

each product because it has different shape and quantity. Then, it made use of

machine become more variable. Therefore, this undergraduate thesis would make

a simple application to support the decision for planning the production capacity

using RCCP method and BOLA technique which made some alternative solution

in taking decision in order to prevent under capacity. Before it happened, the

components would called family and it would be categorized based on similarity

of machine process that calculated using ROC and ALC technique.

The last result for this research would be an application that produce accurate

data calculation for capacity production planning and could help Pindad in

making decision whether it would add more shift or more machine if under

capacity happened. Based on data result, it can concluded that 7 family product

had been created and the best alternative is to add more shift with the cost around

4,6 million rupiahs.

Keywords: RCCP, ROC, ALC, Capacity Planning, Family

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