

ABSCTRACT

International Operational Terminal 3 PT. Indonesia Port Company Terminal Peti Kemas or PT. IPC TPK is a port terminal that serves container loading and unloading activities. PT. IPC TPK faces the problem of high time container loading and unloading services. Problems at the company indicate container loading and unloading operations that are less than optimal.

In this study consisted of two stages, the first stage was the determination of the number of quay crane tools for container loading and unloading activities. In the second stage, calculating container loading and unloading service time using linear programming methods to minimize loading and unloading service time. Models built using the Microsoft Excel 2016 application.

The results of the calculation of container unloading service time using linear programming resulted in container loading and unloading service time of 36 hours, which decreased by 36.14 hours or about 50% of the service time before it was proposed.

Keywords: Container Terminal, Loading Unloading Container, Linear Programming.