ABSTRACT

WHARF STRUCTURE ANALYSIS OF HORIZONTAL FORCES

By

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Increased in service capacity becomes reason for heavy repairs Port of Panjang on D3 Wharf. Based on this thing and the importance of wharf function, it is necessary to analysis as evaluation which aims to determine the capacity of the wharf structure on the effects from horizontal work forces and get the safety factor. The method used is compared between the sectional analysis and structural analysis. Sectional analysis used to determine the actual capabilities of the wharf structure that has been built, while the structural analysis aims to determine the effects of the loads that work against the wharf used SAP 2000 programme. The results of analysis showed that the wharf structure able to withstand the forces that work due to increased the service capacity, it can be seen from the value of safety factor which is obtained.

Keywords: Analysis, Wharf Structure, Horizontal Work Forces.