

ASSESSMENT OF THE SEI SELAR CROSSING PORT WHEAT BENGKALIS DISTRICT RIAU PROVINCE

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Abstract

Along with its service life, the existing wharf experienced some structural element damage caused by environmental conditions and operational loads. The structural damage that occurs is damage to the concrete structure (broken, cracked, and peeling). The structural evaluation uses the NDT (Non-Destructive Test) method, which is a test method without damaging the structural elements tested using the dial detector, and the visual test uses the BMS 1992 (Bridge Management System) method. From the results of the visual test on the slab elements in the field, it was found that the condition value was 3, where there was severe damage in the form of spalling and honeycomb, so that the reinforcement was exposed and corroded. In field testing using a dial gauge, it is known that the deflection conditions that occur on the slab elements are 3.98 mm with a truck load of 10 tons. The amount of deflection obtained using the Abaqus application with a load of 10 tons is 2.73 mm.

Keywords : Dock, Slab, Abaqus