ABSTRACT

DOCKING – UNDOCKING PROCESS USING SHIP AIR BAGS

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Technology of pulling and dropping (launching) ship, or better known as the docking – undocking ship process will continue to evolve with the growing market demand to comply the classification standard to be able to get Sea Going Certificate and be done with the process faster and safer. Today, the process pulling or dropping (launching) ship with Slipway method that uses the Cradle, have found obstacles that can reduce processing time and can add of work units on the Repair List due to deformation arising from the direct contact between the hull with a hard material on the sled (Cradle).

Answering the challenge, PT. Dok dan Perkapalan Kodja Bahari (DKB) Galangan IV, Tanjung Priok, North Jakarta, do innovations to change the Ramp Way initially using the Cradle to use the Ship Air Bags. Ship Air Bags is a sausage-shaped balloon with a special rubber material which has elasticity, tensile strength, compressive strength and specific.

With the Ship Air Bags, docking – undocking ship process can more faster and more secure which is not obtained when using the Cradle. This may provide an opportunity at PT. Dok dan Perkapalan Kodja Bahari (DKB) Galangan IV to have more ‘Dock Space’, so it can receive maintenance and repair more ships with a satisfactory quality of service.

Keywords : Docking, Undocking, Ship Air Bags, Ramp way, Slipway method, Launch Cradle (Cradle).