ABSTRACT

IMO MSC.215 (82) and IMO MSC.291 (87) are the regulations regarding the PSPC (Performance standard for protective coatings) ballast tanks for all types of vessels above 500 GT and cargo tank above 5000 DWT oil tankers. In these regulations there are new requirements that must be fulfilled for surface preparation and coating application in ballast tanks and tank loading. In this final project technical and economical analysis regarding application of the rules of these regulations on the construction of oil tankers in shipyards.

The method used was direct observation in the field. By direct observation in the field, it obtained the required data. Further, the data were processed and analyzed in the technical application of IMO PSPC that meets the requirements and analysis of economic costs arising from the application of the PSPC regulations.

The results of this study is that the application of PSPC for ballast tanks and cargo tank on the construction of oil tankers at the shipyard has been in accordance with IMO regulations. The Costs are required for implementing PSPC ballast tanks and cargo tank regulations on the construction of 17,500 DWT oil tanker PT PAL is expected increase by 21.49% if compared to without implementing PSPC. Costs required to implementing the PSPC ballast tanks and cargo tank regulations on the construction of 6,500 DWT oil tanker PT DPS is expected increase by 31.89% if compared to without implementing PSPC. And costs required to implementing the PSPC ballast tank and the cargo tank regulations on the construction of 3500 DWT oil tanker PT Dumas is expected increase by 32.21% if compared to without implementing PSPC.

Key Word: PSPC, oil tanker, ballast tank and cargo tank, cost production