DEVELOPMENT STUDY OF COST BASED SHIPBUILDING STRATEGY MODEL

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ABSTRACT

Present shipbuilding strategy is difficult to anticipate the increase of costs incurred during building time, especially when building large ships built more than 1 year. This thesis aims to develop a model of the shipbuilding strategy based on the cost in order to reduce the occurrences of uncontrolled cost increment. Firstly, the existing shipbuilding strategy was analyzed. Secondly, the dominant factors that affect the cost increases was identified. Thirdly, a prototype model of shipbuilding strategy based on shipbuilding costs was designed and verified. The approach used a combination of SWOT matrix theory, matrix operation strategy and Analytical Hierarchical Process method. Some important costs based the parameters consisting of facilities, technology, personnel and material were considered. The information related to the shipbuilding strategy is stored in a database management system can be used as historical data, which can then be used as references for developing the next shipbuilding strategy of the new ships.

Key words; model, shipbuilding strategy, cost