DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING MARA UNIVERSITY OF TECHNOLOGY

A STUDY ON MAINTENANCE MANAGEMENT OF SHIPYARD

MAZNIDATUL AKMAR SY1HAN BIN JANI 2004227774 BACHELOR OF BUILDING SURVEYING (HONOURS)

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURES, PLANNING AND SURVEYING MARA UNIVERSITY OF TECHNOLOGY SHAH ALAM, SELANGOR

DISSERTATION (BSV 695)

APPROVAL OF DISSERTATION AMENDMENT

"It is notified that this student has made amendments as directed allowed to bind his dissertation"

Student's Name : MAZNIDATUL AKMAR SYIHAN BIN JANI

UiTMIDNo. : 2004227774

Dissertation Topic : A STUDY ON MAINTENANCE MANAGEMENT OF

SHIPYARD

Session : JULY 2006

Supervisory Lecturer : MAHAYUDIN MAHMOOD

ACKNOWLEDGEMENT

Special thanks to my dissertation supervisor, Mahayudin Mahmood for the time, ideas, willingness, assistance, guidance, patience, and encouragement throughout the making and preparation of this dissertation.

I would like to thank to my family especially, for all their endless support and understanding throughout my life.

i also would like to extent my deepest gratitude and appreciation to Pn. Roslina Radzlan (Senior Executive of Engineering Department, Malaysia Marine Heavy Engineering Sdn. Bhd.), Afendi Ahamdi (Deputy Engineer, Shipyard Development Department, Regal Marine Engineering Services Sdn. Bhd.), En. Azhar Kamal (Deputy Director of Technical Services Department, NGV Tech Sdn. Bhd.) and all staff from maintenance department who sided me and spent their precious times to discuss the matter and threw in ideas during the course of this study.

My sincere thanks are also due to every individual who has given me the assistance in terms of materials, ideas, and effect in one way or another.

Finally I would like to note that the responsibility for the one deficiency for this dissertation, if any is entirely mine.

Thank you very much and may God bless you

ABSTRACT

Shipyard industry involves mostly wide range of marine constructions, engineering and repair works. This research will be mainly on the common problems of maintenance works arise which based on three (3) case studies. It is remarkable and very astonishing to see about maintenance system at each shipyard. This research will cover maintenance organisation, maintenance policy, strategy on maintenance works and cost.

Furthermore, the problem arises in maintenance works and strategy of maintenance that makes the shipyard maintenance in efficiently will also be highlighted. The research is carried out through interviews and questionnaires. Interviews are conducted with shipyard's authority and questionnaires are distributed to the staff of shipyard for data collection.

CONTENTS	PAGE NO

Ackr	nowledgement		
Abst	ract		
List o	f Figures		
List o	f Table		
List of Photos			
List of Chart			
cha	ntor 1: INTRODUCTION		
Ciia	pter 1: INTRODUCTION		
1.1	introduction	1	
1.2	objectives/purposes	3	
1.3	issue of study	3	
1.4	scope of works	4	
1.5	methodology		
1.6	guide to dissertation		
oho	ntor 2. THE PRINCIPLE OF MAINTENANCE		
Ciia	pter 2: THE PRINCIPLE OF MAINTENANCE		
2.1	introduction	8	
2.2	the definition of maintenance	9	
2.3	types / classification of maintenance	11	
2.4	nature of maintenance	16	
2.5	concept of maintenance	18	
2.6	criteria of maintenance	19	
2.7	policy of maintenance	21	
2.8	maintenance strategy	22	
2.9	conclusion	23	