

SURAPOL RAADNUI, LIEUTENANT : MAINTENANCE RESOURCE PLANNING ON MAJOR OVERHAUL OF MAIN PROPULSION SYSTEM OF FAST ATTACK CRAFT. THESIS
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The purpose of this research is to present the maintenance and material requirement planning for major overhaul of the main propulsion system for fast attack crafts. A microcomputer (16bits) used by the system simulation for man-hour requirement problem, the MRP system and the analysis of the maintenance plan use PERT/CPM algorithms. The MRP system begins with the study of master production schedule, bill of materials, onhand and schedule receipts. These items can be used to determine the right quantities of required materials and time for delivery.

The results show that the main problem of the ships' maintenance system is the lack of the appropriate material management which causes the delay to ships maintenance plan. The labour and machines available in the plant are sufficient. The result implies that the installation of the MRP system for the procurement of materials may solve this problem influentially. The solution has the possibility to reduce the time for overhaul the main propulsion system of fast attack crafts and let the schedules meet the requirement of the Royal Thai Navy.