MARINE CORPS ORDER P4790.1B Ch 3

From: Commandant of the Marine Corps
To: Distribution List

Subj: MARINE CORPS INTEGRATED MAINTENANCE MANAGEMENT SYSTEM (MIMMS) INTRODUCTION MANUAL

Ref: (a) MCO 5215.1K

Encl: (1) MCO 4790.1B W/CH 1&2

1. Situation. The MIMMS is a set of manual procedures by which the effective use of personnel, money, facilities, and materiel as applied to the maintenance of ground equipment is controlled. It is supported by an Automated Information System (AIS) which functions as a stand alone Class I system that interfaces with existing Marine Corps systems and programs. MIMMS and MIMMS/AIS apply to all command levels and maintenance echelons. They provide management visibility to the user level while simultaneously collating Maintenance Engineering Analysis (MEA) information for item management.

2. Mission. To establish the policy for MIMMS and to explain ground equipment maintenance management in the Marine Corps.

3. Execution. Administrative changes are as follows:

   a. Change the sponsor to reflect LPC-1.

4. Administration and Logistics

   a. Distribution Statement. Directives issued by the CMC are published electronically and can be accessed online via the Marine Corps Publications Electronic Library at: http://www.marines.mil.

   b. Access to an online medium will suffice for directives that can be obtained from the Internet, CD-ROM, or other

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sources. For purposes of inspection, electronic files will suffice and need not be printed. For commands without access to the Internet, hard copy, and CD-ROM versions of Marine Corps directives can be obtained through Marine Corps Publications Distribution System (MCPDS).

c. Recommendations concerning the contents of this Order are invited. Such recommendations will be forwarded to the Commandant of the Marine Corps (CMC) Logistics Policy (LP) via the appropriate chain of command.

5. Command and Signal

a. Command. This Order is applicable to the Marine Corps Total Force.

b. Signal. This Order is effective the date signed.

M. G. DANA
Director Logistics Plans, Policies and Strategic Mobility Division

DISTRIBUTION: PCN 10206545003
MARINE CORPS
INTEGRATED MAINTENANCE MANAGEMENT SYSTEM (MIMMS)
INTRODUCTION MANUAL
[MIMMS Introduction Manual]

U.S. MARINE CORPS
MARINE CORPS ORDER P4790.1B Ch 1

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To: Distribution List

Subj: MARINE CORPS INTEGRATED MAINTENANCE MANAGEMENT SYSTEM (MIMMS) INTRODUCTION MANUAL

Encl: (1) New page inserts to MCO P4790.1B

1. Purpose. To transmit new page inserts to the basic Manual.

2. Action. Remove pages 4-5 and 4-6 from the basic Manual and replace with corresponding pages.

3. Summary of Change. To redefine the requirements.

4. Change Notation. Significant changes in the revised pages for this Change are denoted by an arrow (> ) symbol.

5. Filing Instructions. This Change transmittal will be filed immediately following the signature page of the basic Manual.

R. J. WINCLASS
Deputy Chief of Staff
for Installations and Logistics

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MARINE CORPS ORDER P4790.1B CH 2

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Subj: MARINE CORPS INTEGRATED MAINTENANCE MANAGEMENT SYSTEM (MIMMS) INTRODUCTION MANUAL

Encl: (1) New page inserts to MCO P4790.1B

1. Purpose. To transmit new page inserts to the basic Manual.

2. Action
   a. Remove page iii and replace with the corresponding page contained in the enclosure.
   b. Insert new Appendix A contained in the enclosure.


4. Change Notation. Significant changes in the revised pages for this change are denoted by an arrow (>) symbol.

5. Filing Instructions. This Change transmittal will be filed immediately following page 3 of the basic Manual.

R. J. WINGLASS
Deputy Chief of Staff for Installations and Logistics

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<table>
<thead>
<tr>
<th>Change Number</th>
<th>Date of Change</th>
<th>Date Received</th>
<th>Date Entered</th>
<th>Signature of Person Entering Change</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
MIMMS INTRODUCTION MANUAL

CONTENTS

CHAPTER
1  INTRODUCTION
2  MAINTENANCE DEFINITIONS AND PROGRAM EXPLANATIONS
3  MAINTENANCE MANAGEMENT PROGRAM PROCEDURES
4  MAINTENANCE MANAGEMENT ORGANIZATION

APPENDIX A  MARINE CORPS MAINTENANCE-RELATED PROGRAMS AND SYSTEMS
CHAPTER 1
INTRODUCTION

1000. BACKGROUND. The MIMMS is a set of manual procedures by which the effective use of personnel, money, facilities, and materiel as applied to the maintenance of ground equipment is controlled. It is supported by an Automated Information System (AIS) which functions as a stand alone Class I system that interfaces with existing Marine Corps systems and programs. MIMMS and MIMMS/AIS apply to all command levels and maintenance echelons. They provide management visibility to the user level while simultaneously collating maintenance engineering analysis (MEA) information for item management.

1001. OBJECTIVES. By providing visibility of maintenance resources, MIMMS enables commanders to prioritize assets to better accomplish the maintenance mission and thereby improve readiness. In support of this objective MIMMS:

1. Defines and establishes uniform management policies and procedures for ground equipment maintenance.

2. Improves staff planning, organization, direction, and coordination of maintenance activities.

3. Documents requirements, actions, and expenditure of resources.

4. Provides timely update of requirements status through system interface.

5. Provides timely management information for prioritizing operations and identification and correction of trends, excesses, deficiencies, and waste.

6. Provides readiness reporting information.

7. Extracts selected history for use in acquisition, budgetary, and item management decisionmaking.

1002. GENERAL POLICY

1. A commander is responsible for the operational readiness of table of equipment (T/E) items and for maintaining them within the capabilities of his table of organization (T/O) mission statement. Intermediate and depot level maintenance activities are responsible to support that maintenance required beyond an organizational capability.
2. The same policies and procedures apply to all commands, all ground equipment commodity areas, and all echelons of maintenance as outlined herein:

   a. This Manual applies to all reparable items appearing on the appropriate T/E’s, allowance lists and special allowances except as indicated below.

   b. This Manual does not apply to the following:

      (1) Aviation materiel furnished by the Navy which is subject to policy prescribed by the Chief of Naval Operations.

      (2) Medical and dental materiel which are subject to the maintenance policies of the Commander, Naval Medical Command.

      (3) Musical instruments maintained per the current edition of MCO 4225.2.

      (4) Industrial plant equipment which does not appear on T/E’s or the current edition of NAVMC 1017 (table of authorized material (TAM)).

      (5) Garrison mobile equipment (GME) when specific procedures delineated in other manuals differ.

      (6) Development equipment.

      (7) Equipment used in the geo-prepositioning program.

   c. This Manual applies to Navy-furnished equipment maintained by the Marine Corps under Interservice Support Agreement (ISSA) or directive; e.g., helicopter mounted M6 .50 caliber and M60 machine guns, per the current edition of NAVMATINST 8300.1.

3. Ground maintenance shall be managed as outlined in this Manual, other manuals in the 4790 series, and as amplified by the directives of the CMC.

1003. SYSTEM ORGANIZATION. MIMMS/AIS has three subsystems: The Headquarters Maintenance Subsystem (HMSS), the Depot Maintenance Subsystem (DMSS) and the Field Maintenance Subsystem (FMSS).

   1. HMSS. The HMSS provides a data base of standards information and selected maintenance information to support logistics managers
# MIMMS INTRODUCTION MANUAL

## CHAPTER 2

MAINTENANCE DEFINITIONS AND PROGRAM EXPLANATIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Paragraph</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEFINITIONS AND PROGRAM ORIENTATION</td>
<td>2000</td>
<td>2-3</td>
</tr>
<tr>
<td>BASIC ELEMENTS OF MAINTENANCE</td>
<td>2001</td>
<td>2-3</td>
</tr>
<tr>
<td>MAINTENANCE CATEGORIES</td>
<td>2002</td>
<td>2-4</td>
</tr>
<tr>
<td>MAINTENANCE ECHELONS</td>
<td>2003</td>
<td>2-4</td>
</tr>
<tr>
<td>MAINTENANCE AUTHORITY</td>
<td>2004</td>
<td>2-6</td>
</tr>
</tbody>
</table>
MAINTENANCE DEFINITIONS AND PROGRAM EXPLANATIONS

2000. DEFINITIONS AND PROGRAM ORIENTATION

1. Maintenance. Maintenance is that action taken on materiel to restore it to or retain it in serviceable condition.

2. Program Orientation. MIMMS is the means employed in the Marine Corps to accomplish and manage the maintenance of ground equipment through an integrated system encompassing all equipment commodity areas, based on standard policies and procedures. It is user-oriented and designed to work with other logistics systems.

2001. BASIC ELEMENTS OF MAINTENANCE. Maintenance is comprised of two elements: engineering and production.

1. Maintenance Engineering
   a. Definition. Maintenance engineering occurs throughout an equipment's life-cycle. It develops maintenance concepts, establishes criteria for equipment maintenance, and prepares the technical requirements used in the supply system to support items of equipment. Maintenance engineering bases its concepts and plans on past equipment history. This information can also be used to identify requirements to modify equipment.
   
   b. Application. Maintenance engineering under MIMMS is incorporated into the overall Integrated Logistics Support (ILS) effort. ILS integrates maintenance with other support considerations; e.g., facilities, personnel, training, and technical data, to estimate the supply support requirements of equipment throughout its life-cycle.

2. Maintenance Production. Maintenance production is the physical accomplishment of maintenance functions which commences with the delivery of equipment to the user and continues until it is removed from the inventory. These functions are:
   
   a. Preventive maintenance (PM).
   
   b. Corrective maintenance (CM)
   
   c. Overhaul.
   
   d. Rebuild.
1. **First Echelon.** That maintenance performed by the user or operator of the equipment. It includes the proper care, use, operation, cleaning, preservation, lubrication and such adjustment, minor repair, testing, and parts replacement as may be prescribed by pertinent technical publications, tools and parts allowances. There is no requirement to collect MIMMS data at first echelon.

2. **Second Echelon.** Second echelon maintenance is that work performed by specially trained personnel in the organization. Appropriate publications authorize the second echelon of maintenance, additional tools and necessary parts, supplies, test equipment, and skilled personnel to perform maintenance beyond the capabilities and facilities of first echelon. This includes performance of scheduled maintenance; diagnosis and isolation of readily traced equipment malfunctions; replacement of major assemblies/modular components which can be readily removed/installed and do not require critical adjustment; and replacement of easily accessible piece parts not authorized at first echelon.

3. **Third Echelon.** Third echelon maintenance is that authorized by appropriate publications to be performed by specially trained personnel either in an intermediate or organizational role. Third echelon includes diagnosis and isolation of equipment/modular malfunctions; adjustment and alignment of modules using test, measurement, and diagnostic equipment (TMDE); repair by replacement of modular components and piece parts which do not require extensive post-maintenance testing or adjustment; limited repair of modular components requiring cleaning, seal replacement, application of external parts, and repair kits; accomplishment of minor body work and evaluation of emissions of internal combustion engines.

4. **Fourth Echelon.** That maintenance normally associated to semi-fixed or permanent shops of intermediate maintenance activities and frequently associated to organizational shops of units with a commodity peculiar mission. Fourth echelon maintenance includes diagnosis, isolation, adjustment, calibration, alignment, and repair of malfunctions to the internal piece part level; replacement of defective modular components not authorized at lower echelons; repair of major modular components by grinding, adjusting, items such as valves, tappets, seats; replacing internal and external piece parts to include solid state integrated circuits and printed circuit boards/cards; and performance of heavy body, hull turret, and frame repair.

5. **Fifth Echelon.** That maintenance normally performed by depot maintenance activities and at intermediate maintenance activities when specially authorized by the CMC (LPP). It includes overhaul/rebuild of end items/modular components; repairs which exceed the capability of lower echelon units where special environmental
MIMMS INTRODUCTION MANUAL

CHAPTER 3

MAINTENANCE MANAGEMENT PROGRAM PROCEDURES

<table>
<thead>
<tr>
<th>PARAGRAPH</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>GENERAL PROCEDURES</td>
<td>3000</td>
</tr>
<tr>
<td>SPECIFIC PROCEDURES</td>
<td>3001</td>
</tr>
<tr>
<td>TRAINING PROGRAM</td>
<td>3002</td>
</tr>
<tr>
<td>MAINTENANCE PRODUCTION PROCEDURES</td>
<td>3003</td>
</tr>
</tbody>
</table>
CHAPTER 3
MAINTENANCE MANAGEMENT PROGRAM PROCEDURES

3000. GENERAL PROCEDURES

1. Equipment maintenance management shall follow the procedures set forth in this Manual and other maintenance directives and publications.

2. Repairs shall be performed at the lowest echelon/category of maintenance and, in a tactical environment, as far forward as possible. Choice of echelon/category shall depend on the type of repair, time factors, parts required, and the tools, equipment, and personnel available. Tactical conditions and temporary shortages of support equipment/personnel may preclude a unit from performing maintenance it is normally authorized to conduct. In such instances, a higher maintenance category shall effect repair of items evacuated to it, or provide support through use of secondary reparable float, or by employing contact teams, as appropriate.

3001. SPECIFIC PROCEDURES

1. All organizations shall perform only those maintenance actions which they are authorized to perform as indicated by their T/O.

2. Materiel requiring repairs beyond the scope or capability of the unit shall be evacuated to the activity providing that capability.

3. Each echelon of maintenance incorporates the capabilities of lower echelons and units authorized shall be required to accomplish lower echelon tasks as well when practical or tactical situations so dictate.

4. Units authorized lower echelons shall not perform maintenance assigned to a higher echelon. Evidence of unauthorized maintenance practices shall be reported to the proper commander for corrective action.

5. Movement, protection, preservation, and general care of reparable materiel that is unserviceable shall be the same as that afforded serviceable materiel to prevent further deterioration.

6. The time reparable materiel remains unserviceable and shall be kept to a minimum.
technician regarding MIMMS, the responsibilities of personnel they will be supervising and their own responsibilities, and functions in relation to other command and staff sections. They should be able to determine the requirements for, acquire, maintain, and use technical publications. They should be familiar with maintenance related programs and know how to employ them in support of the maintenance effort. They must also be able to correctly complete field level input documents and effectively use unit output reports to identify trends, to prioritize their maintenance assets and allow for the most efficient production in support of their unit's mission.

4. Supervisory level training will enable graduates to perform duties commensurate with their grade and MOS. They should know the requirements described for the operator and direct supervisor as well as have a working knowledge of the AIS, the required input to support units whether in garrison or deployed, the means to obtain information from the data base, the AIS output, particularly at the major subordinate command level, and its managerial use for isolating trends and prioritizing production.

3003. **MAINTENANCE PRODUCTION PROCEDURES**

1. **General Information.** Maintenance by a using unit will be accomplished within authorized echelons, governed by current capability, and consistent with the availability of maintenance resources. Intermediate maintenance will be effected through the established maintenance channels for the unit requiring support. When maintenance is not economically feasible within the organization or through normal intermediate maintenance channels, it may be necessary to acquire maintenance services via ISSA with other DoD activities possessing the capability and capacity for additional workload. Maximum use of government-owned, -operated or contracted facilities will be attempted before turning to commercial sources.

2. **Maintenance Production by Field Units.** Maintenance production in the field is restricted to first through fourth echelon maintenance. Actions performed will be limited to PM, CM, modification, and calibration.

   a. **PM** includes all servicing actions and those repair and test actions used in inspecting and detecting failures in initial stages before they develop into major defects. It includes all such actions whether conducted on a scheduled or non-scheduled basis.

   b. **CM** includes all repair and test actions performed on failed equipment to restore it to operating condition.
# MIMMS INTRODUCTION MANUAL

## CHAPTER 4

### MAINTENANCE MANAGEMENT ORGANIZATION

<table>
<thead>
<tr>
<th>General Information</th>
<th>4000</th>
<th>4-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structure Arrangement</td>
<td>4001</td>
<td>4-4</td>
</tr>
<tr>
<td>Headquarters Marine Corps</td>
<td>4002</td>
<td>4-4</td>
</tr>
<tr>
<td>Fleet Marine Force</td>
<td>4003</td>
<td>4-4</td>
</tr>
<tr>
<td>Supporting Establishments</td>
<td>4004</td>
<td>4-5</td>
</tr>
<tr>
<td>Organized Marine Corps Reserve and Inspector-Instructor Staffs</td>
<td>4005</td>
<td>4-6</td>
</tr>
</tbody>
</table>
4000. GENERAL INFORMATION. This chapter outlines the Marine Corps maintenance management structure and the responsibilities of maintenance management officers (MMO's) within MIMMS. It also describes management responsibilities applicable to each level of maintenance within the FMF and the supporting establishment.

1. Requirements

   a. Commanders at all levels, including detached or separate commands, shall assign an MMO when their command is authorized second echelon or higher maintenance for more than one commodity area. The MMO shall coordinate and integrate the maintenance efforts of all command activities.

   b. The T/O's of battalion/air group size and larger FMF units reflect MMO billets or additional duty assignments by T/O line number. In comparable size units which require an MMO where the T/O does not identify the MMO billet, the commander shall assign an officer the duties of MMO. These responsibilities may be assigned as additional duty for an officer or as a primary duty for a staff noncommissioned officer when a full-time officer assignment is not required.

   c. In units authorized second echelon maintenance in only one commodity area, the individual designated as the commodity manager shall perform the maintenance management functions and need not be designated as the MMO.

2. Responsibilities

   a. Commanders. Commanders are responsible for the effectiveness of the maintenance program within their commands. Inherent in that responsibility is the requirement to:

      (1) Ensure that command attention is commensurate with maintenance's impact on the unit mission.

      (2) Provide standing operating procedures to direct unit efforts in support of the command maintenance program.

      (3) Ensure training programs are established which address MIMMS functional areas targeting operators, technicians, clerical, and supervisory personnel.
2. **Regiments, Battalions, and Aircraft Groups.** In exercising responsibility for maintenance management, commanding officers shall ensure that an officer under the cognizance of the Logistics Section (S-4) is assigned the primary duty of MMO.

3. **Companies, Batteries, and Squadrons.** When the assignment of an MMO is not specifically required by the T/O, the commanding officer may assign an officer the additional duty of MMO. An MMO need not be assigned in the headquarters company of a battalion, regiment, or headquarters squadron of a group when the parent organization has assigned an MMO and maintenance functions are performed under the cognizance of members of the executive/special staff.

4. **Service Support Units**
   a. The FSSG’s have a threefold responsibility in coordinating organic maintenance, support maintenance, and Class I MIMMS operational requirements. FSSG commanders shall assign an officer in the G-4 to coordinate maintenance management functions appropriate to organizational equipment, an officer in the Combat Service Support Section to coordinate support maintenance requirements, and an officer in the Combat Service Support Section to coordinate Class I MIMMS operation.
   
   b. FSSG’s, Brigade Service Support Groups, Marine Expeditionary Units, Service Support Groups, and Combat Service Support Detachments will be organized to include an officer to coordinate organizational requirements and a maintenance control officer in the Maintenance Operations Section to coordinate support maintenance requirements.

4004. **THE SUPPORTING ESTABLISHMENT**

1. **General Information.** The supporting establishment includes Marine Corps bases (MCB’s), air stations, logistics support bases (excluding DMA’s), districts, barracks, and other activities which are not part of the operating forces. Maintenance management as it applies to the supporting establishment is under the staff cognizance of the Assistant Chief of Staff G-4 or the S-4 at the appropriate level. The requirements for assignment of an MMO are no different from the operating forces. The following commands shall assign an MMO to coordinate maintenance of organizational equipment within the command:

   a. MCB’s.

   b. Marine Corps schools authorized second echelon or higher in more than one commodity. If only one commodity is authorized second echelon, the commodity manager shall carry out the duties of the MMO.
This appendix contains maintenance related programs listing the program directive, the program definition, and the program’s relationship to maintenance.

1. **Configuration Management Program, MCO 4130.8**
   a. This program controls the function and physical characteristics of equipment throughout its life cycle. Configuration audits are used during development for an accounting of changes to equipment during its operational life.
   b. The Marine Corps Systems Command provides the maintenance engineering input for configuration management control decisions. Configuration audits provide maintenance engineering changes information. Maintenance engineering identifies the maintenance implication of equipment change proposals and documents them. Maintenance engineering evaluates the impact of changes on maintenance resources requirements and adjusts resources accordingly. Field units comply with the modifications and report them, when required.

2. **Equipment Repair Criteria Program, MCO 4130.8**
   a. This program determines which table of authorized materiel equipment will be repaired or replaced. It provides criteria which, when applied, avoid the unnecessary expenditure of maintenance funds when item replacement is more economical, and it establishes uniform criteria for retiring engineer equipment. The program places a one-time expenditure limit on equipment life expectancy. This figure is determined from the equipment’s life expectancy and the in-use age at which it becomes eligible for retirement.
   b. Field units are guided by this program in performing equipment maintenance and equipment replacement.

3. **Reliability Centered Maintenance Program, MCO 4700.3.** This program is a basic element of maintenance management control and considers maintenance implications in equipment development. It ensures that effective maintenance is designed into equipment, sets parameters for maintenance requirements based on operational experience with equipment, and initiates technical changes or modifications to hardware.

4. **Calibration Program, MCO P4733.1**
   a. This program ensures that an accurate standards or measurement is maintained during the test, repair, and inspection.
evaluates product quality. It establishes standards for detecting deviations from quality requirements and provides a feedback system to evaluate product quality. The effectiveness of quality assurance in product improvement results in better equipment readiness.

b. Maintenance contributes to this program by identifying and reporting equipment defects uncovered during rebuild, inspections, etc., at the repair activities. The Quality Assurance Program directly influences commitments to maintenance resources.

9. Rebuild Program, MCO P4400.82

a. This program provides a means for restoring unserviceable end items or secondary depot reparable items to serviceable condition for return to the operating inventory.

b. Management of the Rebuild Program is a function of maintenance production. Maintenance resources must be planned to support equipment restored through the Rebuild Program.

10. Secondary Depot Reparable Program, MCO P4400.82

a. This program provides for rapid restoration of deadlined critical items to a mission capable status by exchanging unserviceable secondary reparable items. Items in this category include subassemblies, modules, or major components for serviceable items retained in a preestablished location at an appropriate repair or reparable item issue point. The program identifies the items and establishes criteria for item use, repair, and evacuation and also promulgates reporting procedures for control of reparable issue point assets.

b. Maintenance facilities are the primary users of secondary reparable items. The secondary reparable items are used to restore equipment to a mission capable status. The maintenance activity repairs the unserviceable secondary reparable item and returns it to the reparable issue point allowance as a serviceable asset. Maintenance production personnel must also identify those secondary reparable items which are not economical to repair and report them to the MCLB’s for disposition instructions.

11. Standardization Program, MCO 4120.5

a. This program improves equipment efficiency and readiness by adopting material and processes that have been evaluated and approved under qualitative standards and specifications. This reduces the number and variety of items in the inventory; conserves money, manpower, facilities, and resources; increases efficiency in design, development, materiel acquisition, and logistics support; and enhances the maintainability of military equipment and supplies.
b. The maintenance production element will identify unnecessary costs in the field and recommended changes. The maintenance engineering activity will evaluate change proposals from the field and from contractors and, when appropriate, will initiate action so that cost savings can be realized without jeopardizing equipment readiness. Changes, as a result of this program, are controlled through the Configuration Management Program.