



UNITED STATES MARINE CORPS
3D MARINE DIVISION (-) (REIN)
UNIT 35801
FPO AP 96602-5801

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DivO P4600.1H
G-4/Emb
09 APR 1983

DIVISION ORDER P4600.1H

From: Commanding General
To: Distribution List

Subj: STANDING OPERATING PROCEDURES FOR EMBARKATION
(SHORT TITLE: SOP FOR EMBARKATION)

Encl: (1) LOCATOR SHEET

Reports Required: I. Logistics/Embarkation Personnel Report,
par. 1004
II. Unit Equipment and Supply List (UESL)
Printout, par. 2007

1. Purpose. To promulgate standing operating procedures for embarkation within the 3d Marine Division (3d MarDiv).

2. Cancellation. DivO P4600.1G.

3 Action

a. Commanding Officers will ensure compliance with embarkation policies and procedures contained in this SOP and applicable references. Should this SOP conflict with directives issued by higher authority, the latter shall take precedence.

b. Regiments and separate battalions will publish standing operating procedures amplifying this SOP to ensure accomplishment of their respective embarkation mission.

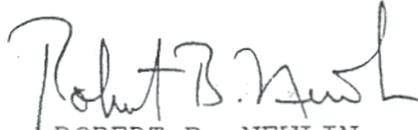
4. Summary of Revision. This revision contains a number of changes and should be completely reviewed.

5. Recommendations. Submit recommendations concerning the contents of this SOP via the chain of command to this Headquarters (AC/S, G-4).

DivO P4600.1H

09 APR 1996

6. Certification. Reviewed and approved this date.


ROBERT B. NEWLIN
Chief of Staff

DISTRIBUTION: A/D plus line 5 (20 copies)

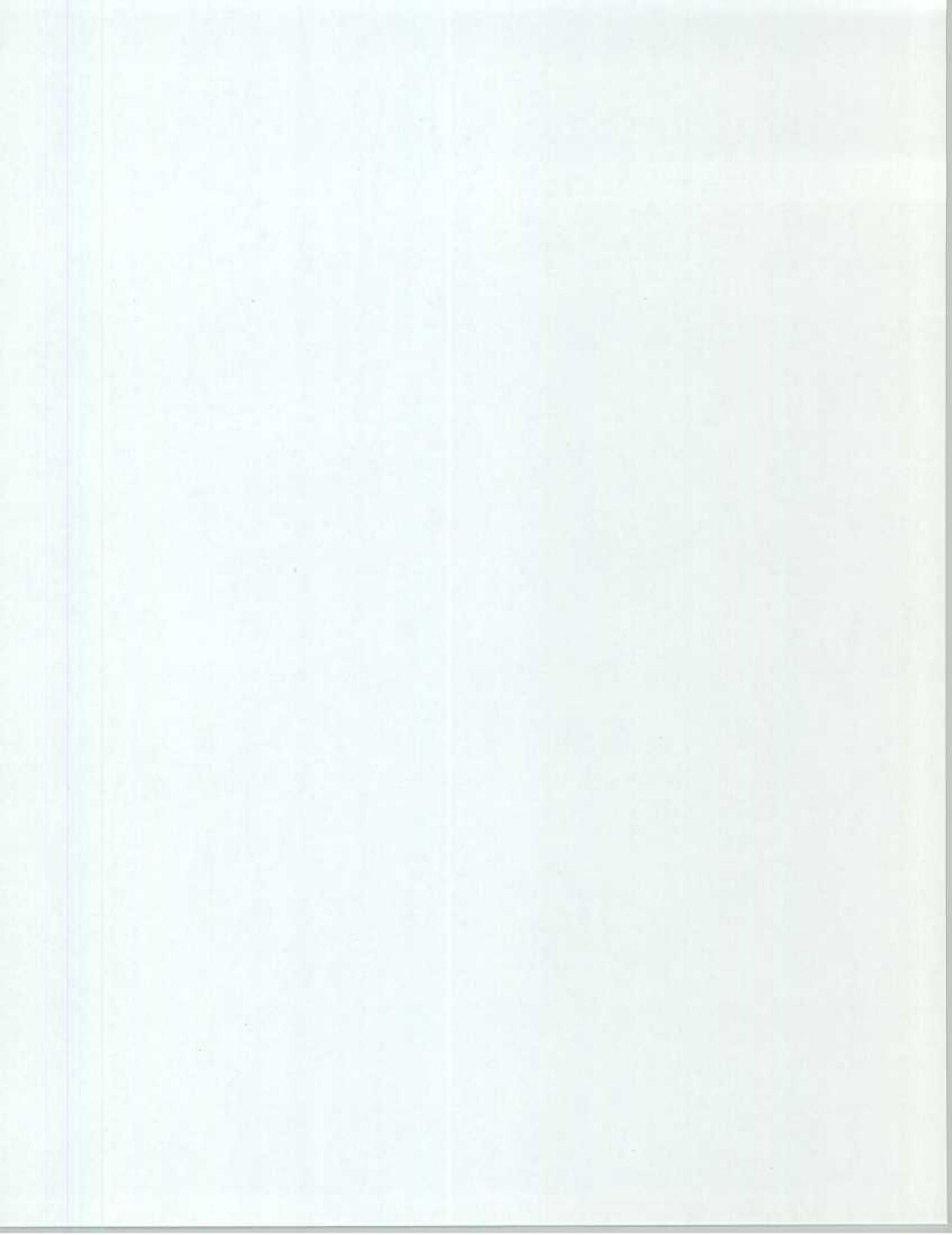
Copy to: CG, III MEF (3)
CG, 3d FSSG (3)
CO, HqBn Camp Fuji

SOP FOR EMBARKATION

RECORD OF CHANGES

Log completed change action as indicated.

Change Number	Date of Change	Date Entered	Signature of Person incorporated Change



SOP FOR EMBARKATION

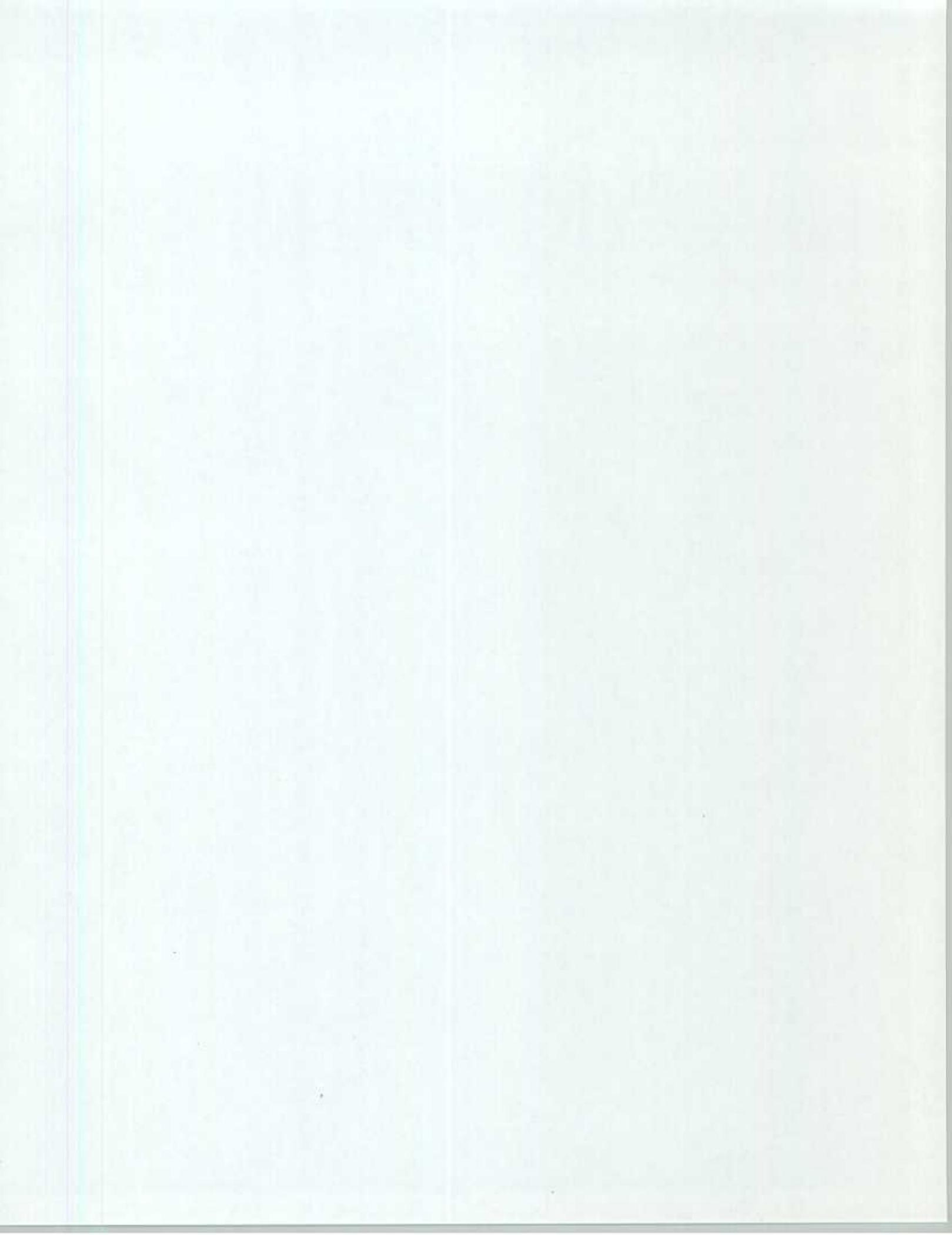
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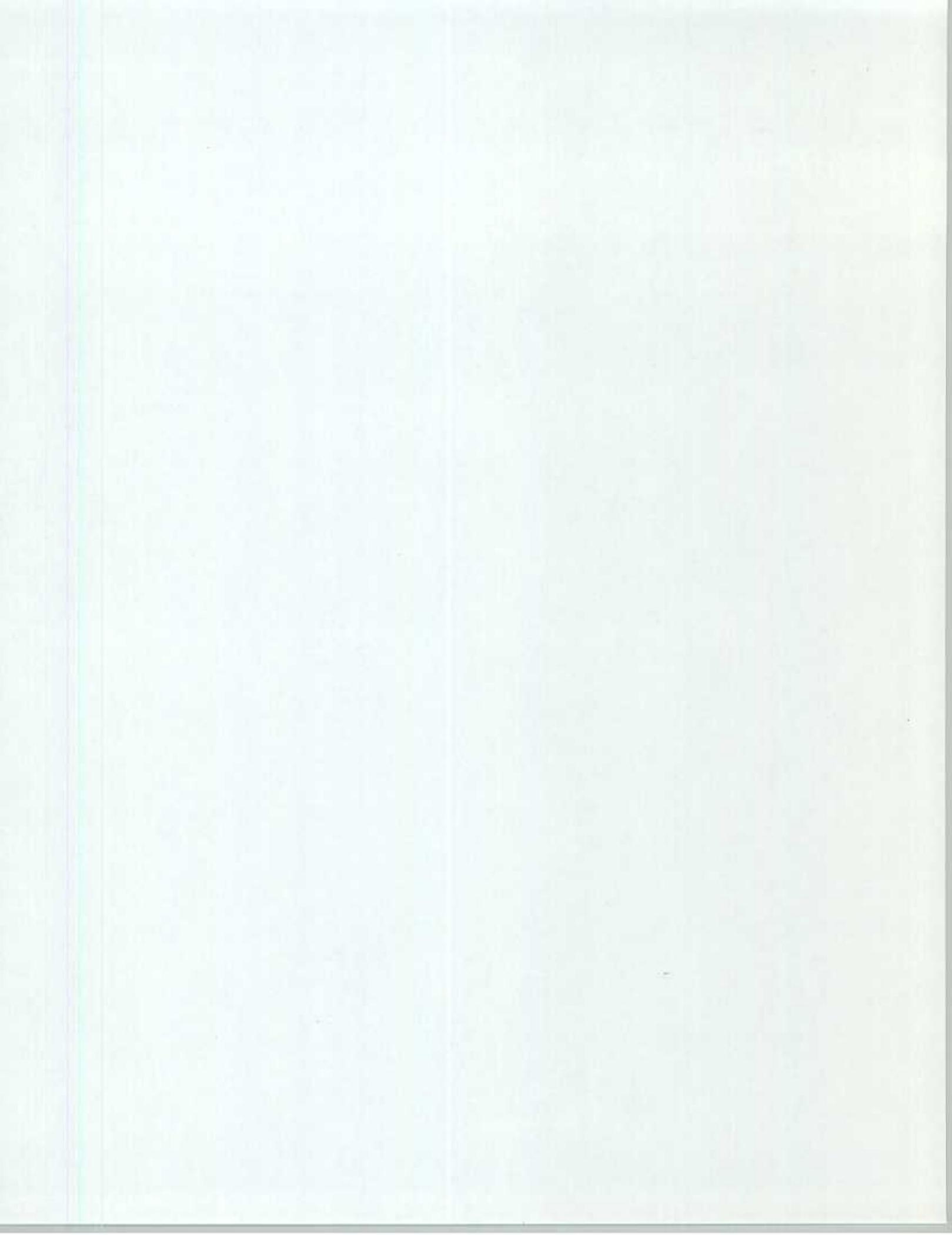


SOP FOR EMBARKATION

CHAPTER

GENERAL

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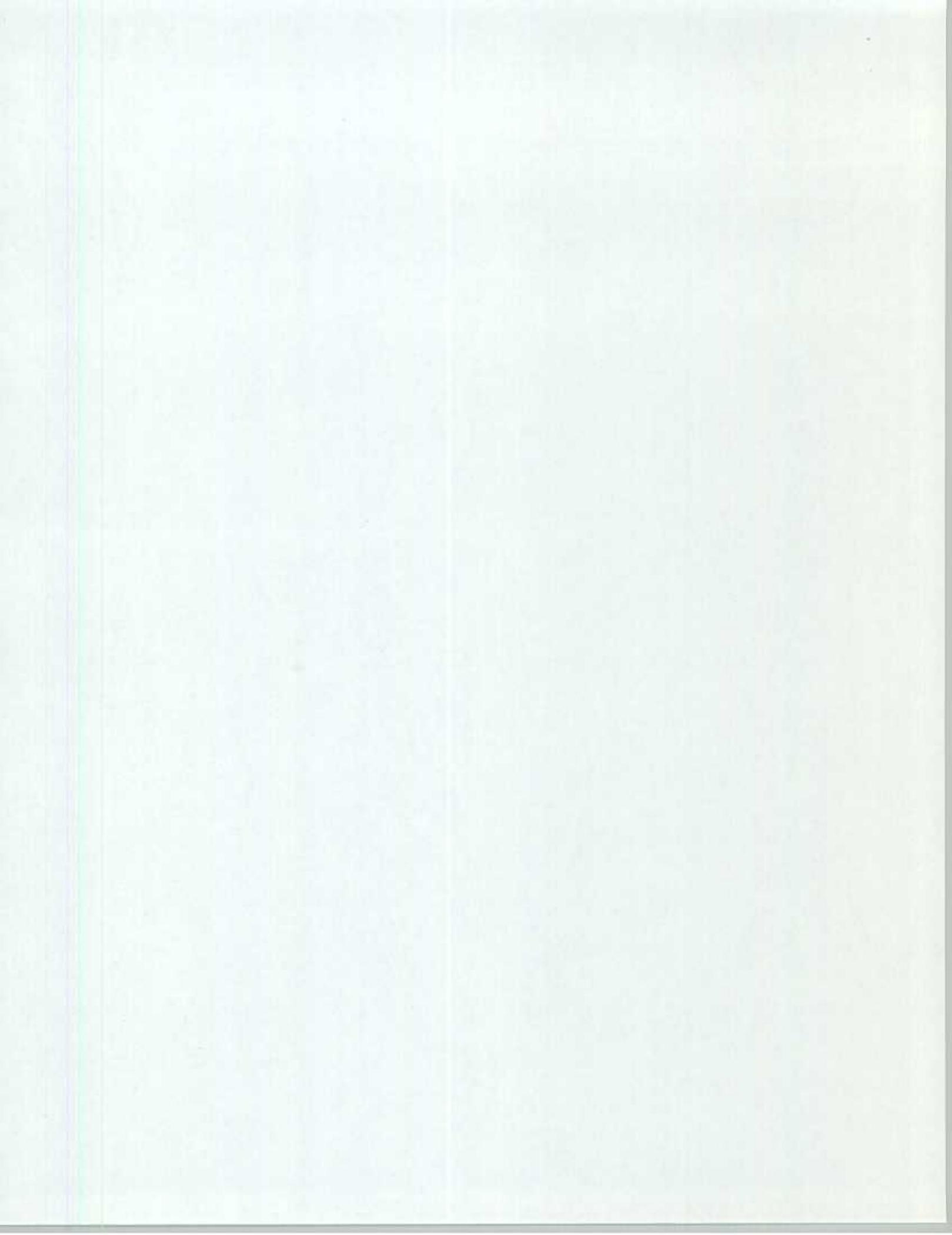
readiness and to provide technical advice in correcting discrepancies. DivO P5040.3 (SOP for Command Inspection Program) applies.

2. SAVs will be made on an "as requested" basis. Requests must be submitted in writing/E-mail to the AC/S, G-4/MMO no less than 10 working days prior to the desired SAV.
3. Appendix A to this SOP contains a checklist which is utilized by the Div Embark Inspection Team during the LRI and SAV.
4. Inspection procedures will be as follows:
 - a. All organizations will submit a current UESL with no annotated changes in the format outlined in Appendix C at the start of the scheduled SAV or LRI.
 - b. All organizations will have material handling equipment, i.e. pallet jack, forklift, available during the inspection to enable all containers and equipment to be inspected.

1006. ORGANIZATION INSPECTIONS. Each regiment and separate battalion will conduct embarkation inspections of subordinate units semiannually or prior to a scheduled LRI. The results of the most recent inspection will be maintained in the organization's Embarkation Officer's turnover file.

1007. DESK-TOP PROCEDURES AND TURNOVER FILE. Since standard operating procedures do not provide the detailed information necessary for the day-to-day accomplishment of tasks, desk-top procedures and turnover folders will be established. Each Embarkation Officer and Assistant will maintain separate desk-top procedures and turnover folders. Procedures for establishing turnover folders and desktop procedures can be found in DivO 5210.3 (Turnover Folder and Desktop Procedures) and specifics pertaining to desktop procedures can be found in the Embarkation Inspection Checklist, Appendix A of this Order.

1008. SAFETY. Safety is of paramount importance during any embarkation evolution and is everyone's responsibility. We must ensure that all embarkation operations are conducted safely, and that all personnel are properly outfitted with the appropriate safety equipment.



SOP FOR EMBARKATION

CHAPTER 1

GENERAL

1000. POLICY. In order for 3d MarDiv organizations to be prepared to embark aboard ships or aircraft on short notice, commanders must ensure that their organizations maintain a high degree of embarkation readiness at all times.

1001. RESPONSIBILITIES

1. Commanders are directly responsible for the embarkation readiness of their organization.

2. Division Embarkation (Div Embark) Officer

a. Advises the Commanding General and his staff and subordinate organizations on matters pertaining to embarkation.

b. Plans, coordinates, submits and monitors Special Assignment Airlift Missions (SAAMs), Message Load Plans (MLPs) for amphibious shipping, Joint Airborne/Air Transportability Training (JA/ATT), and opportune lift requests for 3d MarDiv organizations.

c. Validates level four data as part of the Time Phased Force Deployment Data (TPFDD) for all Joint Chiefs of Staff (JCS)/CINC directed exercises and real world contingencies.

d. Effects and maintains liaison with higher and adjacent headquarters and subordinate organizations.

e. Monitors, coordinates, and reports on all aspects of embarkation readiness within the 3d MarDiv through staff assist visits (SAVs) and the Logistic Readiness Inspections (LRI) Program.

1002. EMBARKATION REFERENCE MATERIAL. Commanders will ensure that adequate reference publications and directives pertaining to embarkation are on hand as outlined in Appendix A.

1003. PERSONNEL ASSIGNMENT AND TRAINING

1. Assignments. All organizations within 3d MarDiv will assign in writing an Embark Officer and enlisted Embark Assistant. Organizations not having T/O billets for embark personnel will establish such

billets as an additional duty. Embarkation will become their primary duty during the planning and embarkation phases of amphibious and air movement operations.

2. Training

a. Organizations will request formal embarkation schools for those Marines with MOS 0430/0431/0491 as required to ensure MOS proficiency and maintain an organic capability to deploy/redeploy

b. Below listed courses are periodically offered on Okinawa, Japan:

(1 Airlift of Hazardous Cargo five days)

(2 AMC Affiliation Course (10 days)

3) AMC Preparations of Supplies and Equipment for Air Movement two days)

c. Commanders will ensure that monthly training is provided to all embarkation/logistics personnel and/or section representatives.

d. Commanders will ensure that embarkation training is included as part of the organization's mission oriented training program. This training is to familiarize non-embarkation personnel with embarkation procedures.

e. Attendance rosters and lesson plans will be maintained for the monthly and annual mission oriented training program. Joint Pub 3-02.2 (Joint Doctrine for Amphibious Embarkation) and FMFM 4-6 (Movements of Units in Air Force Aircraft) are important sources of information for unit training programs.

1004. LOGISTICS/EMBARKATION PERSONNEL REPORT. This report provides information on all personnel performing logistics/embarkation duties and on the availability of embarkation trained personnel within the 3d MarDiv. Each Regt and separate battalions will submit a Logistics/Embarkation Personnel Report to this Headquarters (AC/S, G-4/Emb) 10 days prior to the start of each new quarter (January, April, July, and October). Format for this report is provided in Appendix B.

1005 EMBARKATION READINESS

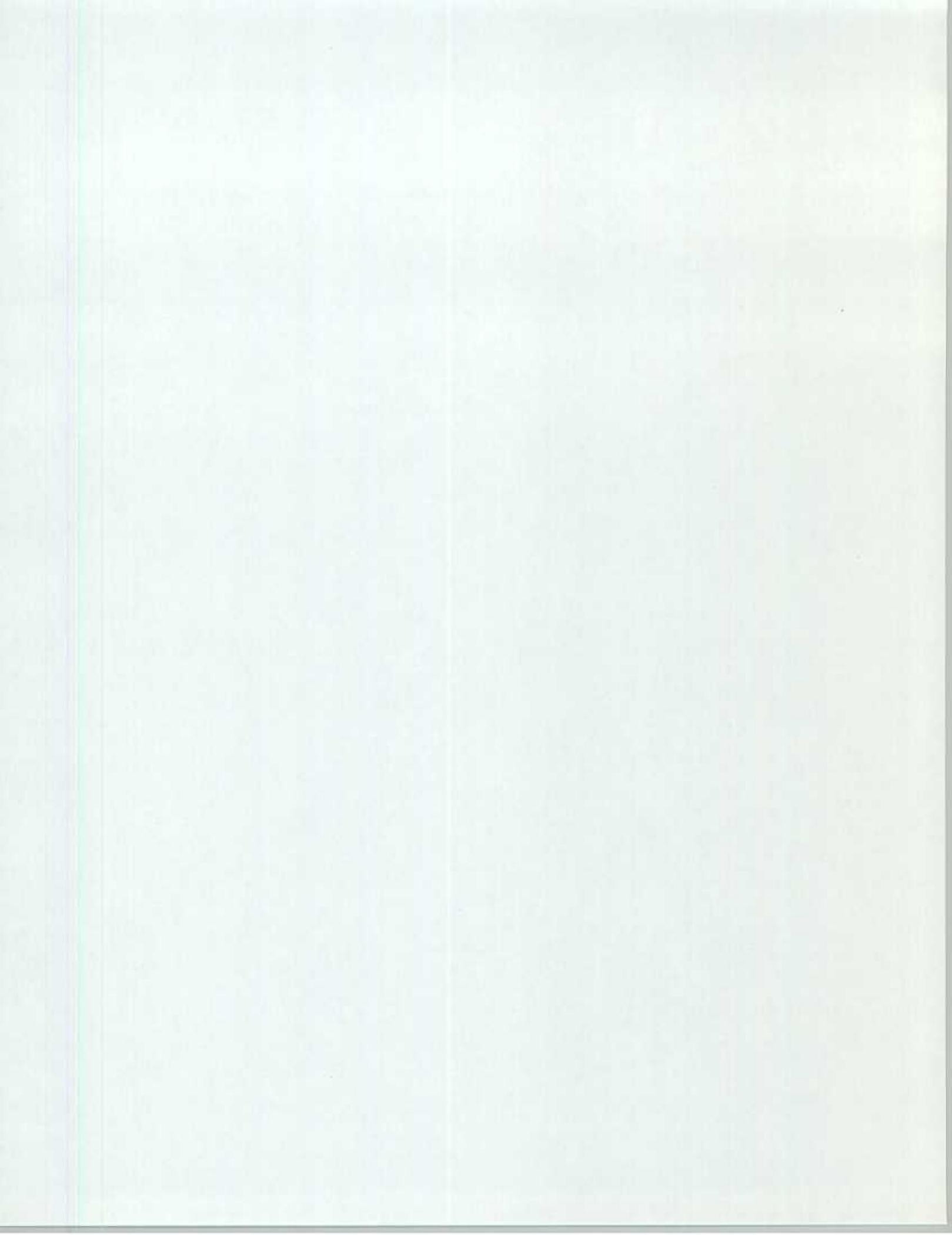
1. Scheduled LRIs of embarkation will be conducted by the Div Embark Section. The purpose of these inspections is to assess embarkation

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CHAPTER 2

MAGTF DEPLOYMENT SUPPORT SYSTEM II (MDSS II)

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CHAPTER 2

MAGTF DEPLOYMENT SUPPORT SYSTEM II (MDSS II)

2000. GENERAL. MDSS II is a microcomputer data base and operational planning tool. MDSS II was developed for the organization commander, and provides organizations with the ability to track, report, and provide lift information for its vehicles, supplies, and equipment. The system, through various program modules, provides organizations with the ability to develop detailed embarkation plans in response to various contingencies. Detailed information concerning MDSS II and its interfaces with other Logistics Automated Information Systems (LOGAIS) can be found in the MDSS II User's Manual.

2001. MDSS II MANAGEMENT. All preparation and maintenance of MDSS II will be accomplished according to the MDSS II User's Manual and this Order. Organizations will ensure that the most updated version of MDSS II is installed, maintained, and utilized. The Division Embarkation Section is available to provide guidance on the use of MDSS II and other assistance as required.

2002. MAINTAIN UNIT DATA BASE (DB)

1. The organization garrison data base in MDSS II is the UESL. This data base contains all vehicles, embarkation containers and equipment that an organization has in garrison. Each organization will maintain an updated UESL (quarterly at minimum) reflecting its entire lift requirement.

2. The UESL will provide visibility of the Table of Authorized Materiel Control Numbers (TAMCN) and quantities of T/E and authorized allowances (to include deficiencies) of organizational supplies, vehicles, and equipment. Moreover, it will identify lift requirements (weight, cube, square) of T/E and enables embarkation planners to create deployment data bases for eventual ship or aircraft load plans. The UESL will validate that the organization has sufficient boxes, containers or pallets on-hand to transport its T/E and allowances. The UESL is not a supply data base used to keep track of every serial number and NSN of organization-owned items. Appendix C identifies UESL report format required for LRIs/SAVs.

a. A separate record will be created for all supplies (boxes, palletized cargo, items requiring cubic foot stowage, etc.) and equipment (vehicles, containers, items requiring square foot stowage, etc.).

b. Individually serialized supplies and equipment that have a TAMCN and are NOT assigned to a box or pallet, (e.g., generators, air conditioner units, vehicles) will have a separate record. Non-serialized grouped items (e.g., helmets, canteens) will be identified by TAMCN and quantity in the "Remarks" field. Description should identify the most important item. The "Qty per Cargo" field will reflect the total number of items inside the box. TAMCN that are component parts of other TAM items should not be reflected in the UESL (e.g., C3070-E-tool carrier for the C3230-E-tool). The dimensions will reflect that of the box and the weight will identify the total loaded weight. See Appendix C for format/example of UESL.

Note: Grouping items together will be limited to embark boxes and standard warehouse pallets. For example, a separate record must still be created for each field desk, however, if the field desks are banded to a warehouse pallet, only one record is required with the "Qty per Cargo" field reflecting the total number of field desks on the pallet. Excessive grouping is discouraged because the mode of transportation may be restrictive.

c. Mobile Loads. Items that are mobile loaded will be reflected on the UESL by entering mobile loaded in the remarks field. One record will be entered for "like" items that are mobile loaded (e.g., cammie netting, water cans). The total number of pieces that are mobile loaded will be entered in the Qty per Cargo field. Any excesses will have their own record.

(1) T/E deficient major end items, (i.e., vehicles, equipment not boxed or palletized) when inputted, will be assigned a computer generated serial number. "T/E DEFICIENCY" will be entered in the "Remarks" field.

(2) T/E deficient equipment and supplies to be boxed or palletized will be identified by entering T/E DEFICIENCY in the "Description" field and TAMCNs/quantities in the "Remarks" field. All remaining fields, with the exception of "weight" (use planned loaded weight), will reflect the box, pallet or container earmarked for the deficient items.

(3) T/E excesses will be entered on the UESL in the same manner in which T/E deficient items are.

2003. ORGANIZATIONAL PLANNING

1. Unit Deployment List (UDL). The UDL consists of supplies and equipment extracted from the UESL for exercise or contingency deployments. Refer to MDSS II User's Manual for instructions on UDL

construction. UDLs will be submitted to reflect movement requirements for planning of all deployments, whether they be via airlift or sealift.

2. Associate Packages. Once a UDL is complete, the next step is to associate (link) the appropriate supplies and equipment through the "Associate Packages" option in the "View/Edit UDL" menu. All supplies and equipment associated in garrison and listed as separate record entries can be linked. The MDSS II User's Manual will give examples of the different types of association offered.

2004. MDSS II REPORTS

1. Any report that is required to document an amphibious ship's combat loading plan, a report designed to extract selected fields of information (queries), or a report consisting of fields not found on any other table (e.g. SqFt or CuFt) can be created. The MDSS II User's Manual provides information for developing queries and generating reports.

2. UESL Printout. This printout is used to verify UESL accuracy against the organization's T/E, boxes, containers, pallets, vehicles and equipment during embark inspections (see Appendix C for format).

2005. DATA BASE BACK UP. Due to the inherent software problems associated with a program as complex as MDSS II, it is imperative that organizations maintain a copy of their UESL and any UDLs they have created on separate backup diskettes. Relying solely on information retrieval from the hard drive is unreliable and may result in the complete and total loss of all data (or access to that data) without warning. Exporting should occur whenever changes have been made to the data base.

2006. CREATING TPFDD DATA THROUGH MDSS II. UDL information may be downloaded from MDSS II and uploaded into MAGTF II to create level four movement information in the TPFDD.

2007. SCHEDULED UESL PRINTOUT SUBMISSION. Regts and separate battalions will submit their entire updated UESL, MDSS II export files (SPLICE.COM and UNIT.L01) to this headquarters (AC/S, G-4/Emb) via the lan as attachments 10 days prior to the start of each new quarter i.e. January, April, July, and October. The UESL printout will reflect all T/E supplies and equipment as of the last day of the previous month, see Appendix C for format.

2008. TECHDATA TABLE. The Techdata table is the third of three main tables within MDSS II. This table is filled in when MDSS II is installed into the computer and does not require initial data entry. The Techdata table provides the other two tables (UESL and UDL) with information that can be used for verification or user reference.

Note: Items that do not appear in the Techdata table can be added by selecting the appropriate table under the Reference main menu option. Changes made to the Techdata table will automatically update the UESL/UDL tables, therefore, they should be carefully considered to prevent good data from being lost.

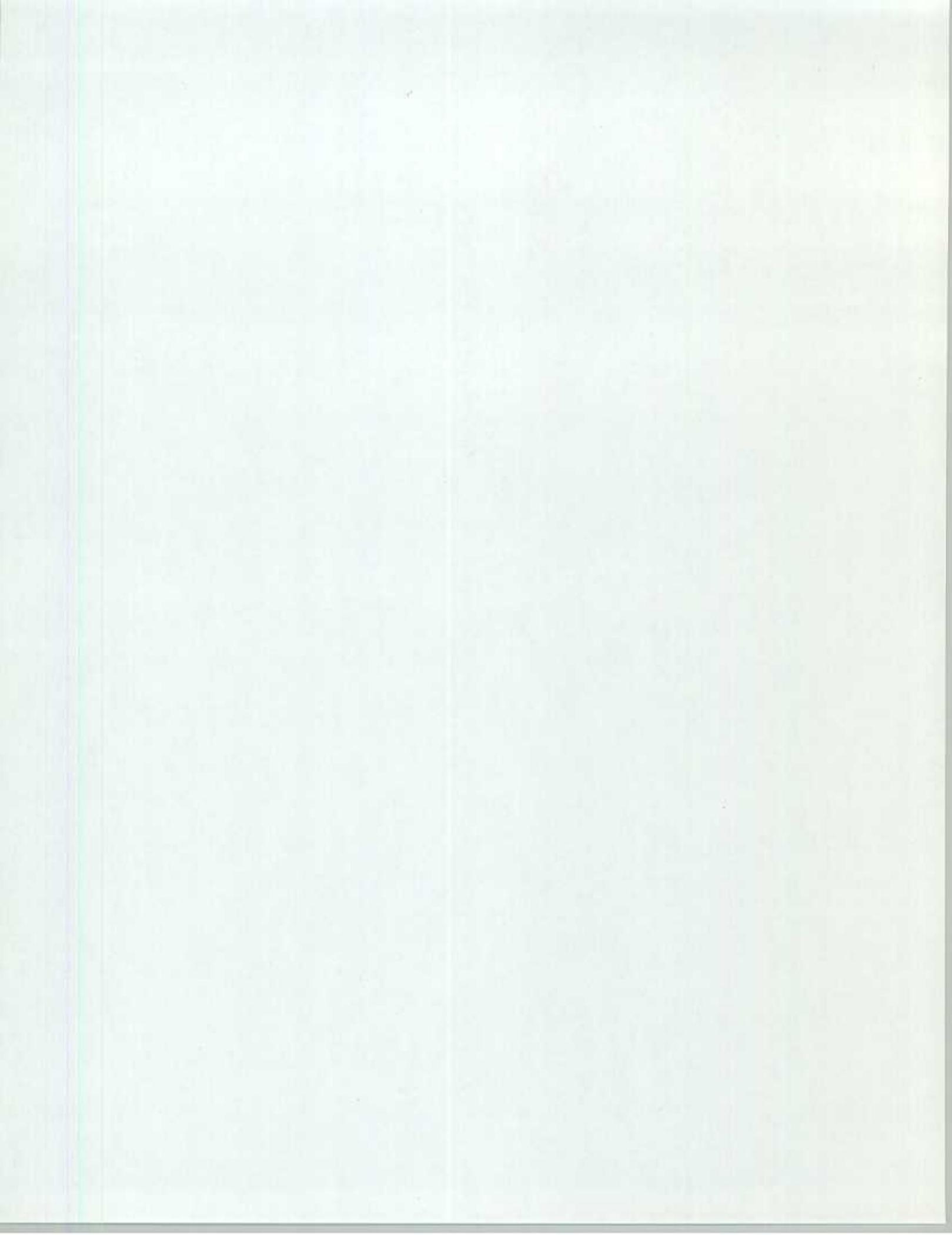
2009. DATA BASE (DB) TOOLS: The size and complexity of the MDSS II program and the amount of Random Access Memory (RAM), or conventional (temporary) memory, storage space required to operate certain applications occasionally results in either the system locking up, the user being "kicked out" of a particular table, or the display of various error messages describing problems such as a lack of memory to complete an operation, or problems in a specific table. Although these problems are frustrating to the user, they can usually be corrected through the DB Tools function within MDSS II.

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CHAPTER 3

PREPARATION OF SUPPLIES AND EQUIPMENT

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CHAPTER 3

PREPARATION OF SUPPLIES AND EQUIPMENT

3000. GENERAL. Proper preparation of supplies and equipment is essential to the maintenance of embarkation readiness. Preparation of vehicles, equipment and supplies for embarkation will be per Joint Pub 3-02.2, FMFM 4-6, MarForPacO 4035.1 (Tactical Marking Procedures for Equipment and Embarkation) and this SOP.

3001. EMBARKATION BOXES, CRATES, AND OTHER CONTAINERS

1. Standardized containers will be used whenever possible. Examples of standard box sizes are six, 54, and 122 cube. Nonstandard boxes adversely affect efficient loading and utilization of ship and aircraft space. Accordingly, non-standard boxes are authorized only for packaging uniquely configured items that will not fit into standard boxes.

2. Damaged boxes and crates will be repaired by salvaging all usable parts. Only unserviceable parts will be discarded. Organizations will use embarkation boxes and containers on a daily basis, to the maximum extent possible. Although advisable for preservation, it is not necessary to paint all embarkation boxes, crates and containers. Container markings will be painted on a dark background.

3. Boxes containing items susceptible to damage by exposure to moisture shall be waterproofed. It should be emphasized that not all boxes require waterproofing. Waterproofing materials cannot withstand hard usage. Therefore, boxes that are used as bins in garrison should not be waterproofed until they are to be packed for embarkation. Staples, nails and tacks will not be used to affix waterproofing paper to the boxes. Glue will be used to affix the paper. Waterproofing paper and glue are available through the Marine Corps supply system.

4. All embarkation boxes, pallet boards, crates and other containers i.e., palcons, inserts, quadcons will be marked per MarForPacO 4035.1 (see Appendix D).

3002. REQUESTING PROCEDURES. Embarkation boxes are requisitioned through the CO, 3d SupBn (PP&P) via CO, Regt (if applicable) and CG, 3d MarDiv (G-4 Emb). Requests for embarkation boxes will include a detailed sketch, dimensions of inside and outside of box and justification stating why standardized embarkation box cannot be used. All requests will be submitted on NavFac 9-1104/20 (Work Request) form.

3003 PALLETS

1. All pallets must be of standard dimensions (32 X 40 or 40 X 48 inches) and properly constructed (including banding slots). They must permit four way access by forklifts or pallets jacks and must permit lifting with bridle and slings placed under the ends of the pallet. They should be packaged to permit stacking.
2. Empty pallets and pallet boards will be maintained to accommodate items not normally palletized in garrison.
3. Expeditionary cans for petroleum, oils, lubricants (POL) and water will be loaded on pallets. 15 cans will be stacked on a 32 X 40 inch pallet and 21 cans on a 40 X 48 inch pallet. Expeditionary cans will not be stacked two high. Care must be taken in banding and handling plastic water containers to prevent damage. Cans should be arranged with the spouts outboard on the outer rows to facilitate filling them while palletized. Markings will be per MarForPacO 4035.1 (see Appendix D).
4. Only 1 1/4 inch banding will be used for palletized supplies and equipment. Banding materials and tools will be maintained in sufficient quantities to meet demand during embarkation.

3004. PALLET BOARDS. Pallet boards are required for all palletized cargo. These boards are positioned on one end, a side and top of the palletized items. Pallet boards shall be 12 inches long by 12 inches high or 18 inches long by 12 inches high. Markings will be per MarForPacO 4035.1 (see Appendix D).

3005. TACTICAL MARKING. Vehicles and other major end items will be marked with Unit Identification Code (UIC) in black paint per MarForPacO 4035.1.

3006. ASSIGNMENT OF BOX/PALLET/CONTAINER NUMBERS. For ease of identification, no two boxes, pallets or containers should be assigned the same number within any one unit. It is recommended that each section within an organization be assigned a block of sequential numbers that is sufficient to embark the entire section and still provide for any additional boxes/pallets/containers that may be acquired. For MDSS II purposes, the entire vehicle/equipment serial number will be used.

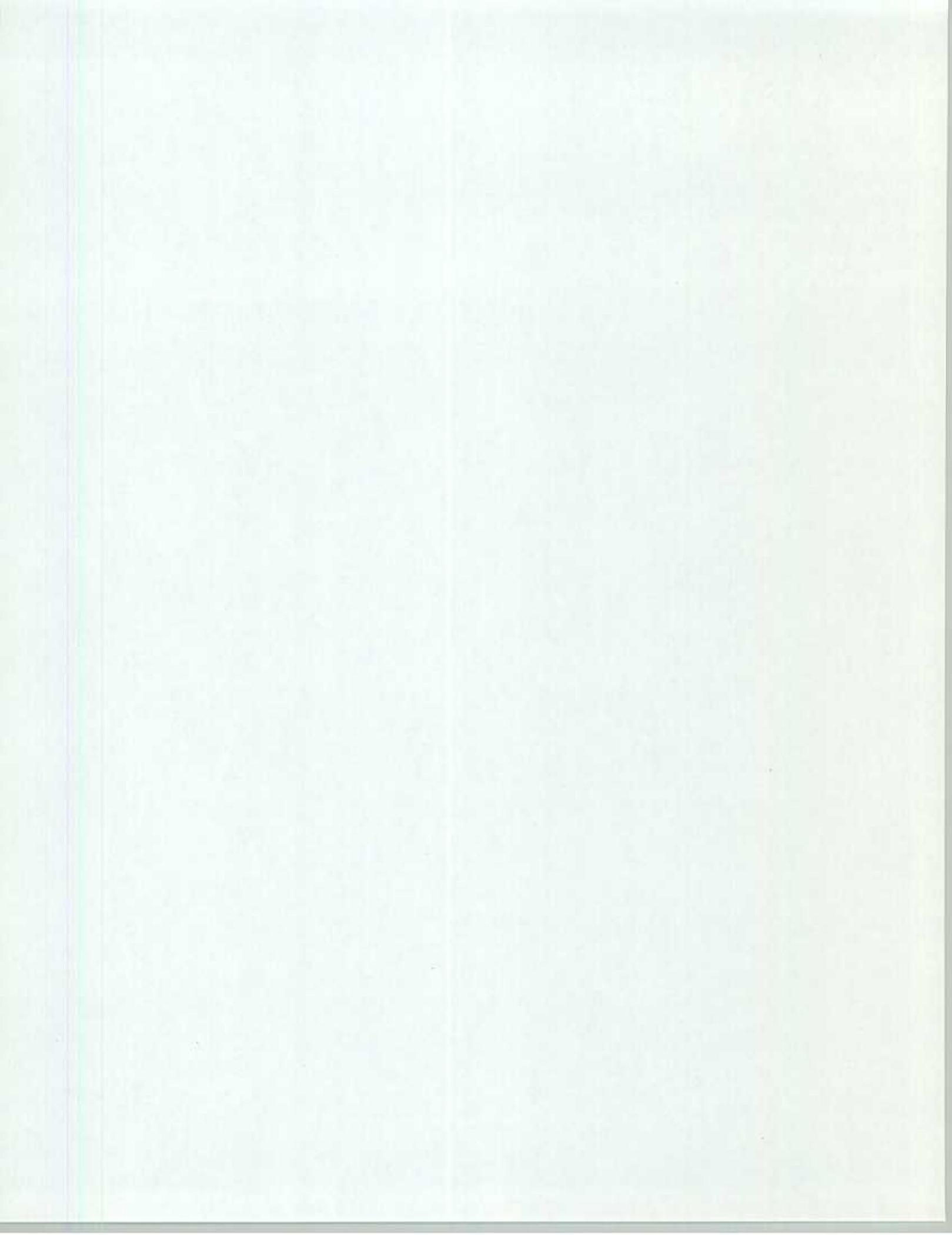
3007. VEHICLE PREPARATION. Vehicles deploying/redeploying by air/surface movement will be prepared per Joint Pub 3-02.2 or FMFM 4-6.

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CHAPTER 4

AIR MOVEMENT

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SOP FOR EMBARKATION

CHAPTER 4

AIR MOVEMENT

4000. GENERAL. This section provides guidance and procedures to be utilized for air movement of 3d MarDiv organizations.

4001 AIR MOVEMENT PLANNING

1. General

a. FMFM 4-6 contains doctrinal guidance and definitions relative to air movement. DivO P3000.10, (SOP for ACM), contains specific guidance concerning the conduct of air movement planning and execution regarding contingency operations. MarForPacO 4630.6 (Procedures for Forecasting and Requesting Special Assignment Airlift Mission (SAAM) Support) provides information and request procedures for SAAMs. AMC OPOD 17-76 provides information and request procedures for JA/ATT.

b. Kadena Air Base, Okinawa, is the primary Aerial Port of Embarkation (APOE)/Aerial Port of Debarkation (APOD) for Air Mobility Command (AMC) aircraft for 3d MarDiv organizations on Okinawa, Japan. The Arrival Airfield Control Group/Departure Airfield Control Group (AACG/DACG) is located at Kadena 5 Right (K5R).

2. Hazardous Cargo

a. It is the responsibility of the moving organization to ensure all hazardous cargo has been properly certified. Division organizations will ensure at least two personnel are qualified to certify hazardous materials as outlined in MCO P4030.19 (Preparing Hazardous Materials for Military Air Shipments).

b. The PP&P Section, 3d SupBn, 3d FSSG provides both packaging and hazardous cargo certification support. The PP&P section will package and certify general cargo (less vehicles) if the cargo is delivered to Building 401 at Camp Kinser. The hazardous cargo must be delivered to PP&P at least seven working days before the show time at the APOE. Cargo, to include all documentation, must be delivered and picked up by the requesting unit.

3. Airlift Movement Requests

a. General. Every effort should be made to utilize AMC airlift. Movement of cargo and passengers via AMC channel, other scheduled flights or commercial air is controlled by agencies outside the scope of this SOP. The Div Embark Section will provide information and guidance as required.

b. Information

(1) For airlift requirements that cannot be satisfied by AMC, 3d MarDiv, G-3 Air can request support from 1st MAW. 1st MAW may support provided its aircraft are not committed to the primary mission of providing aerial refueling or assault transport service. If 1st MAW KC-130s are utilized, G-4 Embark Section will monitor all airlift requests and provide embarkation support as required from the requesting organization.

(2) JA/ATT offers the 3d MarDiv and AMC an opportunity to jointly develop knowledge, procedures and proficiency for combat operations, and to attain and maintain wartime readiness. AMC OPOD 17-76 sets forth guidelines for use of JA/ATT. JA/ATT may not be used merely for transportation, and must be used for training of organizations with an air transportability mission.

c. Procedures

(1) SAAM. Requests for SAAM airlifts and copies of corresponding aircraft load plans to include MDSS II UDL diskette will be submitted to this Headquarters (AC/S, G-4/Emb) a minimum of 55 days prior to the available lift date utilizing the format in MarForPacO 4630.6.

(2) JA/ATT. Requests for JA/ATT will be submitted to this Headquarters (AC/S, G-4/Emb) in the same manner as a SAAM with the exception that the subject line will be "JA/ATT REQUEST" and the remarks must provide justification for utilizing JA/ATT. This request will then be provided to the III MEF representative for those 3d MarDiv organizations on Okinawa and to the 3d MarDiv Embark Officer/representative for those 3d MarDiv organizations based on Hawaii to be present at the next upcoming JA/ATT conference for approval by AMC.

(3) Cancellations. This Headquarters (AC/S, G-3 and G-4/Emb) will be notified immediately of AMC SAAMs or individual missions of AMC SAAMs which require cancellation. In the event that Div Embark personnel cannot be contacted, and the AMC SAAM or individual mission of AMC SAAM is within 96 hours of being executed, the III MEF/3d MarDiv CDO should be notified DSN 622-7768/7709/7571.

4. Unit Deployment Program (UDP)

a. Personnel information for the senior person of a UDP advance party will be submitted to this Headquarters (AC/S, G-4/Emb) 115 days prior to the scheduled unit deployment/redeployment dates.

b. UDP SAAM request for the main body deploying/redeploying during the months of May through September will be submitted in SAAM format to this Headquarters (AC/S, G-4/Emb) 150 days prior to

scheduled unit deployment/redeployment dates. For movement dates scheduled during the months of October through April, the UDP SAAM request will be submitted in SAAM format to this Headquarters (AC/S G-4/Emb) 90 days prior.

4002. PREPARATION OF CARGO AND VEHICLES

1. General. Packing, crating and marking will be per FMFM 4-6, FMFPacO P4600.1 (Standing Operating Procedures for Embarkation) and MarForPacO 4035.1.
2. Regts and separate battalions will coordinate with the AACG/DACG at K5R to pickup 463L pallets and associated nets.
3. Vehicles should be mobile loaded to their cross country weight capacity and not exceed an overall height of 96 inches or the side racks of the vehicles, whichever is lower.
4. Cargo loaded in vehicles should be covered and will be tied down with hemp rope (1/2 inch in diameter) or 5,000 lb capacity cargo straps to prevent shifting during flight.
5. Dunnage/shoring is an organization responsibility.

4003. EXECUTION

1. Exercise and Training Deployment SAAMs. Upon receipt of actual airflow (normally 5-7 days prior to requested movement window), Regt and separate Bn embark officers/assistants will:
 - a. Coordinate with AACG/DACG for staging of 463L pallets/vehicles, passenger holding area and request Material Handling Equipment (MHE) support.
 - b. Coordinate Joint Inspection (JI) schedules with the SAAM coordinator, 633d Air Mobility Support Squadron (AMSS) at Kadena AB, DSN 634-0007.
 - c. SAAM movements require baggage to arrive at the APOE a minimum of four hours prior, and passengers three hours prior, to scheduled flight departure. Cargo must be staged and prepared for Pre-JI a minimum of 48 hours prior to scheduled flight departure. A JI will be conducted 24 hours prior to scheduled flight departure. FMFM 4-6 provides a sample JI record and discusses its preparation. At a minimum, deploying units will have on hand the following during the JI:

(1) A complete LOGAIS computer suite with the current version of the Computer Aided Load Manifesting (CALM) software installed.

(2) Blank copies of the Shippers Declaration of Dangerous Goods hazardous material.

3 List of pertinent points of contact and off duty phone numbers

d. Any movement of ammunition to the APOE must be coordinated through Div Embark and Ammo Sections. Ammunition should arrive at the APOE 48 hours prior to scheduled aircraft departure. Using organization will coordinate with the SAAM Coordinator/Special Handling, Kadena at least 24 hours prior to movement of ammunition to APOE. Ncte: Ammunition must be transported to "J" gate at Kadena. Once it arrives at "J" gate, the using organization will call the fire department to get a control number (must provide the fire department ammunition hazard class and Net Explosive Weight (NEW)). Once this is accomplished, the using organization will call Special Handling for an escort to the hard stand, and present the "shippers declaration for dangerous goods" for ammunition to be moved.

2. UDP SAAMS

a. Upon receipt of actual airflow information (normally five to seven days prior to requested movement window), Div Embark Section will host a staging and transportation conference. Attendees should include representation from the Regt/rotating organization, Div MT Section and MHE coordinators, 3d FSSG, G-3 LMCC and MCB customs.

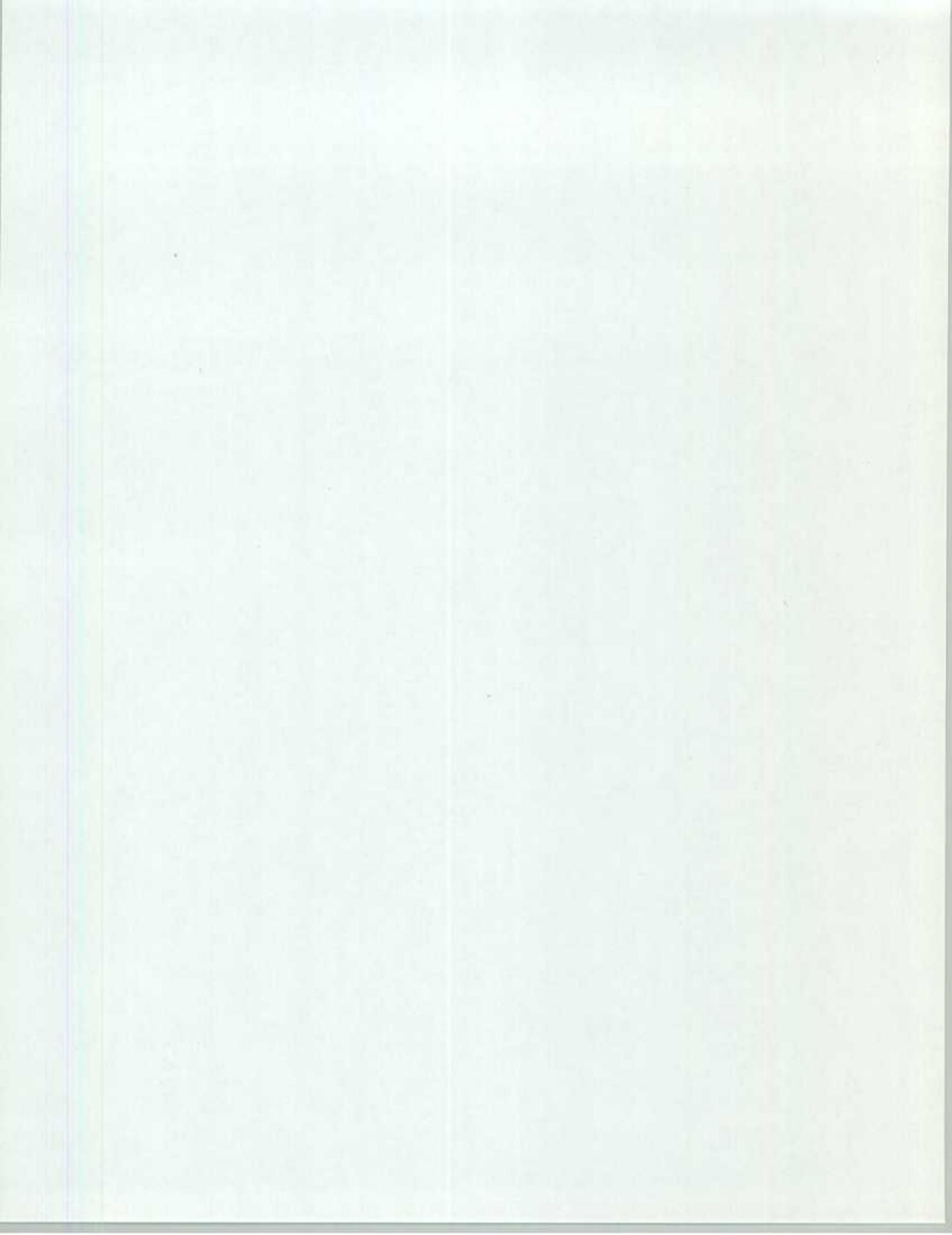
b. Because limited numbers of buses are available, outbound and inbound organizations often must be transported using the same transportation assets. In these instances, passenger show time for outbound personnel at K5R will be no later than one hour prior to the scheduled flight arrival. Outbound personnel will be transported from K5R to the passenger holding area. Empty buses will then be staged at K5R to pickup inbound personnel upon arrival of the flight. For UDP moves, the passenger holding area will be coordinated by the Division Embark Section with the AACG/DACG.

SOP FOR EMBARKATION

CHAPTER 5

SURFACE MOVEMENT

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SOP FOR EMBARKATION

CHAPTER 5

SURFACE MOVEMENT

5000. GENERAL. This chapter provides guidance and procedures to be utilized for surface movement of 3d MarDiv organizations.

5001. PLANNING. Joint Pub 3-02.2 contains doctrinal guidance and definitions relative to amphibious embarkation.

5002. SHIP'S LOADING CHARACTERISTICS PAMPHLETS (SLCP)

1. The Div Embark Section maintains a file, and has copies available, of SLCPs for those ships currently assigned to the U.S. Pacific Fleet.

2. During embarkation operations, any discrepancies noted between the SLCP and the ship will be submitted in writing to this Headquarters (AC/S, G-4).

5003. REPORTS. MarForPacO P4600.1 and FMFPacO 4621.1 (Standard Amphibious Embarkation Documentation Procedures) should be used to obtain information on required reports.

5004. LOAD PLANNING

1. Embarkation Data. As early as possible in the planning phase, embarkation organization commanders will publish guidance to subordinate and attached units concerning the submission of required embarkation data. Guidance should include information on desired contents, format and submission dates. Embarkation organization embarking landing force supplies and/or training supplies are required to prepare UDLs for these items. Copies of UDLs will be provided to the Div Embark Section.

2. Templates. Templates are to-scale cutouts that represent specific items of cargo/equipment. They are drawn to a scale of 1/8 inch equals one foot. Joint Pub 3-02.2 provide detail information on preparing shipboard templates.

3. Load Planning Documents. Load plan documentation for organizations of the 3d MarDiv will consist of the UDL and deck stowage diagrams for each deck or stowage location. Organizations are

3. Slings and Cargo Nets. Organizations will maintain an adequate number of special slings required for unique organic equipment which cannot be lifted by standard slings. Such slings will be maintained in serviceable condition and tested as prescribed in applicable directives.

4. Dunnage, Shoring, and Chocking Materials. Joint Pub 3-02.2 and MarForPacO P4600.1 contain information concerning requirements for dunnage, shoring and chocking materials when Military Sealift Command (MSC) shipping is assigned.

5007. PORT OPERATIONS

1. Control and Coordination. The Team Embarkation Officers (TEOs) working closely with the 3d SptBn, 3d FSSG and the Marine Air Ground Task Force (MAGTF) Embarkation Officer, are responsible for the control and coordination of all staging, loading and unloading activities for their respective organizations at the assigned SPOE. TEO's will be present at all times to supervise the onload/offload of assigned shipping.

2. Division Embark Support. During all embarkation operations involving 3d MarDiv organizations, Division Embark will provide personnel at the SPOE/SPOD to assist the group/team as required

3. For specific ammo requirements/restrictions refer to DivO P8000.5, Ammo SOP.

5008. REPORTS REQUIRED UPON EMBARKATION. When Division organizations embark aboard amphibious ships, there are reports that may be required by higher headquarters depending on the circumstances of embarkation. Consult FMFPacO 4621.1, for reporting requirements.

5009. AGRICULTURE/CUSTOMS INSPECTION AND QUARANTINE

1. Prior to debarkation in Okinawa, organization commanders will ensure that all vehicles and cargo are free of foreign soil and matter to the maximum extent possible.

2. Unit commanders should use their Preventive Medicine Technicians (PMTs) whenever possible to ensure the agriculture inspection of their vehicles and cargo is being done properly. Agricultural/Quarantine Inspectors are specially trained PMTs who fall under the purview of USNH Lester Preventive Medicine.

3. Washdown apparatus and/or decontamination units will be requested/provided as discussed in subparagraph 5006.1 above via the chain of command to the Div Engr Officer.

4. Vehicles, supplies and equipment returning to Okinawa from mainland Japan do not require agriculture/customs inspections.

5. Commanders of all debarking organizations will comply with applicable provisions of current agriculture, customs and quarantine directives. Military Customs Inspectors are Marines attached to MCB Camp Butler PMO.

5010. OPPORTUNE LIFT. Information concerning the use of opportune space aboard amphibious and other U.S. Navy ships for transportation of Marine Corps military material, within and external to the Western Pacific (WestPac) Theater of Operations, can be found in ForO 4600.3 (Use of Opportune Space Aboard U.S. Naval Shipping for Transportation of Marine Corps Military Material) and ComNavSurfPacInst 4600.2 (Policy for utilization of Opportune Lift (OPLIFT)).

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SOP FOR EMBARKATION

LRI EMBARKATION CHECKLIST

ORGANIZATION BEING INSPECTED: _____

INSPECTOR

ORGANIZATION EMBARKATION OFFICER/MOS:

Name	Rank	MOS
------	------	-----

ORGANIZATION ENLISTED EMBARKATION PERSONNEL/MOS:

Name	Rank	MOS
------	------	-----

1. The embarkation portion of the Logistics Readiness Inspection (LRI) was conducted from date to date.

2. The results of this evaluation are as follows:

a. The organization's overall rating is MISSION CAPABLE/NOT MISSION CAPABLE.

b. The following rating scale is used to determine whether an organization is categorized as mission capable or not mission capable.

RATING	POSSIBLE PERCENTAGE
Mission Capable	100% - 80%
Not Mission Capable	79% and below

3. The following table reflects the areas evaluated and the scores achieved in each of these areas.

AREAS INSPECTED	MC/NMC
Administration	
Preparation	
MDSS II	
Performance	
TOTAL	

SOP FOR EMBARKATION

ADMINISTRATION

1. PERSONNEL

a. Embarkation Officer

YES NO N/A

(1) Is there a designated Embarkation Officer assigned in writing?

(2) Has the Embarkation Officer attended one of the Air Movement Planning Courses?

(3) Has the Embarkation Officer attended the Embarkation Officer/SNCO Course?

(4) Has the Embarkation Officer attended a Hazardous Material Certification Course?

(5) Does the Embarkation Officer possess a secret clearance?

(6) Schools attended by the Embark Officer

School

Date

b. Enlisted Embarkation Assistant(s)

YES NO N/A

(1) Is the Embarkation Assistant(s) assigned in writing?

(2) Has the Embarkation Assistant(s) attended the Logistics/Embarkation specialist course?

(3) Has the Assistant(s) attended one of the air Movement Planning Courses?

SOP FOR EMBARKATION

(4) Is the Assistant knowledgeable with respect to air movement?

(5) Has the Embarkation Assistant(s) attended a Hazardous Material Certification Course?

6) Is the certification current?

(7) Does the Embarkation Assistant(s) possess a secret clearance?

8) Schools attended by the Embark Assistant(s):

School

Date

c. Other Embark Personnel

YES

NO

N/A

(1) Are there any personnel with a secondary MOS of 0430/0431 assigned to the organization?

(2) Are there any personnel with the primary MOS of 0430 or 0431 who are assigned primary duties other than embarkation/logistics?

(3) Are their names and telephone numbers maintained in the Turnover Folder?

2 ORGANIZATION EMBARKATION INSPECTION PROGRAM

NO

N/A

a. Are semi-annual embarkation inspections being conducted?

b. Is a copy of the discrepancies noted during the conduct of inspections being maintained on file?

SOP FOR EMBARKATION

c. Has the necessary action been taken to correct discrepancies?

3. EMBARKATION TRAINING

YES NO N/A

a. Have quotas for embarkation training been requested for personnel filling embarkation billets?

b. Have those personnel who are assigned to embarkation billets and are not school trained, either completed or enrolled in appropriate embarkation MCIs?

c. Has the organization conducted monthly embark training?

d. Has the organization conducted annual general embark training as part of its formal mission oriented training program?

e. Are attendance rosters and lesson plans maintained for both the monthly and annual embark training program?

f. Have personnel with an 04 MOS (to include the Embark Officer and his enlisted Assistants) enrolled in or completed the following MCI courses?

Correspondence Procedures

Marine Corps Directives System

(3) The Logistics/Embarkation Specialist

(4) Introduction to Amphibious Embarkation

Fixed Wing Air Embark

SOP FOR EMBARKATION

Landing Support Specialist

MCI related comments:

4 EMBARKATION REFERENCE MATERIAL

a. Does the Embarkation officer or his Assistant(s) have access to:	YES	NO	N/A
---	-----	----	-----

Unit's Table of organization

Unit's Table of Equipment

(3) Table of Authorized Material
(TAM) NAVMC1017

— — —

FMFM 1-5, MPF Operations

DIV

FMFM 1-8, Ship-to-Shore Movement

FMFM 3-1 Command and Staff

Actions

DIV

FMFM 3-2, Amphibious Training

DIV

FMFM 3-3, Helicopter Operations

DIV

FMFM 4 Combat Service Support

(10) FMFM 4-1, Combat Service Support

(11) FMFM 4-2, The Naval Beach Group

DIV

(12) FMFM 4-3, Shore party and
Helicopter Support Team Operations

DIV

(13) FMFM 4-6, Movement of Units in
Air Force Aircraft

(14) FMFM 9-2, Amphibious Vehicles

DIV

SOP FOR EMBARKATION

(15) FMFMRP 1-18, Amphibious ships
and Landing Craft Data book

(16) FMFMRP 14-7, Over-the Horizon
(OTH) Amphibious Operations Concept

(17) LFM 02 (OH), Doctrine for
Landing Forces

(18) OH 5-3A, Helicopter External
Cargo Loading

(19) FM 10-13, Supply and Service
Reference Data

(20) FM 55-15 Transportation
Reference Data

(21) FM 101-10-1/2. Vol II, Staff
Officers' Field Manual: Organization,
Technical, and Logistics Data Planning
Factors

(22) NWP 22-8, MSC Support of
Amphibious Operations

(23) NAVMC 2761, Catalog of
Publications

(24) NAVMC 2753, Certification of
Military Equipment for transport in AMC/CRAF
aircraft

DIV

(25) NAVSEA OP 2165, Navy
Transportation Safety Handbook

(26) NAVSEA OP 4, Ammunition Afloat

(27) NAVSEA OP 4550, Handling and
Stowage of Ammunition Aboard Amphibious
Assault Ships

SOP FOR EMBARKATION

(28) Joint Pub 1-02, DOD Directory of Military and Associated Terms

(29) Joint Pub 3-02, Joint Doctrine for Amphibious Operations

(30) Joint Pub 3-02.2, Joint Doctrine for Amphibious Embarkation

(31) CFR 46, Code of Federal Regulation Title 46 - Shipping

(32) CFR 49, Code of Federal Regulation Title 49 - Transportation

(33) MCO 1510.61_, Individual Training Standards (ITS's) Logistics Occupational Field (OCCFLD) 04

(34) MCO P4030.19_, Packaging and Material Handling Preparation of Hazardous Material for Military Air shipment

(35) MCO P4031.21_, Packaging of Material, Packing (Volume II)

(36) MCO P4030.23_, Instructor's Guide for Basic Military Preservation and Packaging

(37) MCO P4030.24_, Logistics Packaging Management

(38) MCO P4030.30_, Preparation of Freight for Air Shipment

(39) MCO P4030.31_, Packaging of Material, Preservation (Volume I)

(40) MCO P4030.33 Packaging of Material

SOP FOR EMBARKATION

(41) MCO P4030.36 , Marine Corps
Packaging Manual

(42) MCO P4600.7 , Marine Corps
Transportation Manual

(43) MCO 4610.32_ , Standard Operating
Procedure for Collecting and Recording
Dimensions and Weights of Marine Corps End
Items of Equipment for Airlift Certification

(44) MCO 4610.35_ , Standard
Characteristics and Airlift Certification for
Marine Corps Equipment

(45) MCO 4630.17_ , Support Service
Member Delayed ASIF Aircraft

(46) MCO 4631.8_ , Management of System
463L Pallets, Nets, and Tiedown Equipment

(47) MCO 4680.5_ , Containerization
Policy

(48) MCO 8010.1, Class V(W) Available
Supply Rates for Fleet Marine Force Combat
Operations

(49) MCO P8011.4_ , Marine Corps Table
of Allowance for Class V(W) Material
(Peacetime)

50) MarForPacO 4600.1, SOP for
Embark

(51) MarForPacO 4621.1, Standard
Amphibious Embarkation Document Procedures

(52) MarForPacO 4630.6, Procedures
for Forecasting and Requesting SAAM Support

(53) MarForPacO 4035.1

SOP FOR EMBARKATION

Tactical Marking Procedures for Equipment
and Embarkation Containers

(54) COMNAVSURFPACINST 4080.1/
FMFPacO 4080.2, Prepositioning of Landing
Force Operational Reserve Materiel (LFORM)/
Mission Load Allowance (MLA) and other
Contingency Materiel Aboard Amphibious
Warfare Ships of the U.S. Pacific Fleet DIV

(55) COMNAVSURFPACINST 4600.2, Policy
for Utilization of Opportune Lift (OPLIFT) DIV

(56) ForO P3000.8, SOP for the ACM

(57) ForO 4600.3, Use of Opportune
Space Aboard U.S. Naval Shipping for
Transportation of Marine Corps Military
Material DIV

(58) ForO 4630.5, Procedures for
Forecasting and Requesting Military Airlift
Command Support

(59) JtDivO/BdeO P3120.17, WestTPac
Ground UDP SOP

(60) DivO P3000.10, SOP for Alert
Contingency Force (Draft)

(61) DivO P4000.2, SOP for Off-Island
Training Deployments

(62) DivO P4600.1, SOP for Embark

(63) DivO P5210.3B Turnover Folders
and Desktop Procedures

(64) AFR 76-11, Government Airlift
Rates

(65) TM 11240-15/4A, Motor Transport
Technical Characteristics Manual DIV

SOP FOR EMBARKATION

(66) TM-11275-15/3^F, Principal
Technical characteristics of U.S. Marine
Corps Engineer Equipment

DIV

(67) TM-55-2200-001-12, Military
Transportation Guidance

(68) TM 55-46-1/2,
Transportability/Military Vehicle and
Equipment

(69) MAC (AMC) Pamphlet 36-1,
MAC (AMC) Affiliation Training Program -
Airlift Planners Course

70) MAC Pamphlet 55-8, Civil Reserve
Air Fleet (CRAF) Load Planning Guide

(71) Supporting software and manuals for
MAGTF II LOGAIS systems:

- (a) MDSS II User's manual
- (b) CAEMS User's manual
- (c) TCAIMS User's Manual
- (d) CALM system User's Manual

72) Unit's SOP for Embark?

5. GENERAL

YES NO N/A

a. Does the Embarkation Officer/
Assistant(s) maintain an adequate turnover
folder per this SOP?

b. Does the embarkation Officer's/
Assistant's desktop procedures contain as a
minimum the following?

SOP FOR EMBARKATION

(13) A copy of box number allocations to each section/company/battery?

(14) A copy of established procedures for updating the MDSS II database within the organization?

(15) A copy of established procedures for requesting mountout container/boxes from PP&P?

(16) A copy of established procedures for requesting Transportation of Things (TOT) and Transportation of Personnel (TOP)?

(17) A copy of established procedures for obtaining 463L pallets and nets?

c. Is the unit maintaining templates for each T/E item requiring square foot stowage (scale: 1/4"=3') for air and 1/8"=1' for amphibious ships?

SOP FOR EMBARKATION

PREPARATION

YES NO N/A

1. Are all boxes, vehicles and containers marked properly? (___% error rate, less than 10% error rate check yes)
2. Are adequate boxes, crates, and/or pallets on-hand for all supplies, equipment, to includes items that will deploy with the unit or that will remain behind and require storage? (___% error rate, less than 10% error rate check yes)
3. Are standard size boxes (examples 6, 54 and 122 cu) used to the maximum extent possible?
4. Are all containers for items subject to water damage/deterioration properly waterproofed (plastic trash bags are acceptable)?
5. Can the organization identify a box number and associate it with its contents?
6. Are standard 40"x48" or 32"x40" pallets with four access being utilized to the maximum extent possible and are they in serviceable condition?
- 7 Do all pallets have three pallet boards?
8. Are there sufficient banding tools, clips, and 1 1/4 inch wire on hand to band every container/box listed in the MDSSII database?
9. Are expeditionary cans (water and POL) marked correctly and do they have serviceable seals and gaskets?
10. Is sufficient lashing material available for cargo-carrying vehicles?

SOP FOR EMBARKATION

11. Are there sufficient wheel chalks available for use during mountout operations?

12. Are lifting devices installed on all vehicles/equipment?

13. Are mobile loads preplanned, weighed, and identified in MDSS II?

14. Can the organization identify external support movement requirement and obtain that support? at a minimum MHE, vehicle and bus lifts/loads.

15. Are the following embarkation supplies on-hand?

a. Carpenters tool kit (TAM C6510) a available

b. Architect's scale, calculator, tape measure

c. Scales (TAMs C6000, C6010, and K4785) calibrated?

d. Safety equipment (e.g. vests, hard hats, safety boots, flashlights, ear/eye protection, etc.)

e Special ramps. As Required

f. Dunnage/shoring for air, sea, and land movements.

16. Does the organization maintain a PP&P log book?

17. Does the organization reconcile outstanding PP&P requests on a scheduled basis?

SOP FOR EMBARKATION

18. Does the organization have procedures established to submit hazardous material to PP&P for packaging and certification for shipment (surface or air)?

The preparation portion of the LRI will be graded as follows:

<u>Number of Items Inspected</u>	<u>Number of Items With Errors</u>
----------------------------------	------------------------------------

TOTALS

MAGTF DEPLOYMENT SUPPORT SYSTEM II (MDSS II)

1. This portion of the LRI evaluates MDSS II administration, embarkers' knowledge of MDSS II applications and the accuracy of the UESL. The UESL will be in the format prescribed in Appendix C of Div Embarkation SOP (4600.1H).

2. Administration

YES NO N/A

a. Is the organization's MDSS II database up-to-date, and accurately reflects all supplies and equipment?

b. Does the organization's MDSS II database accurately reflect all supplies and equipment based on a physical comparison? (___% error rate, less than 10% error rate check yes)

c. Are the descriptions in the MDSS II database sufficient for the commander to determine if the box/container or their contents are required for an operation?

d. Has the quarterly UESL and associated diskette or LAN attachment been submitted to Division G-4/Embark?

e. Does the Embarkation Officer/ Assistant(s) have a copy of higher

SOP FOR EMBARKATION

Headquarters implementation policy and guidance messages and memorandums to include MDSS II classes?

f. Does the organization have any Unit Deployment Listings (UDLs) reflecting the vehicles, equipment and mountout boxes/containers presently deployed?

3 Applications

YES NO N/A

a. Can the Embarkation Officer/Assistant(s) demonstrate the procedures to be used to create a UDL?

b. Can the Embarkation Officer/Assistant(s) demonstrate the procedures to be used to apply the embarkation planning considerations (mobile loading, landing serial numbers, priority numbers) to vehicles, equipment and mountout boxes/containers?

c. Can the Embarkation Officer/Assistant create a QUERY given a specific set of criteria?

d. Can the Embarkation Officer/Assistant design and produce an AD HOC report given a specific format and criteria?

e. Can the Embarkation Officer/Assistant(s) export an MDSS II database to a disk for:

(1) Transfer of MDSS II information to another unit/command?

Import into CAEMS?

Import into CALM?

Import into MAGTF II?

SOP FOR EMBARKATION

f. Can the Embarkation Officer/Assistant, given specific information, update the various files of the MDSS II reference data files.

g. Can the Embarkation Officer/Assistant create a CALM load plan based on MDSS II import data?

4 UESL Audit and Supplies/Equipment Comparison

a. The organization will provide the inspection team a copy of its UESL (no annotations) at the start of the evaluation for a general audit. The UESL will be compared to the T/E and actual boxes/containers, pallets, equipment and vehicles. Errors will be annotated on the UESL. Upon completion of the inspection, a copy will be given to the organization.

b. The UESL will be evaluated by auditing the following fields within each record: Item Identification, Description, Weight, Length, Width, Height, Cube, Quantity per Package, UP&TT, Cargo Category Code and Unit Identification Code. Incorrect data in any one of these fields causes that record to be in err.

c. The MDSS II grade will be computed by totaling the number of records inspected and the number of records with errors.

Number of Records	Number of Records
<u>Inspected</u>	<u>With Errors</u>

TOTALS

WRITTEN EVALUATION

1 Twenty-Five Question Written Evaluation

a. The Embarkation Officer and enlisted embarkation assistants will take a 25 question test. During the test, personnel can use any embarkation references available.

b. Test scores will be used to compute the performance portion of the LRI grade. Units will ensure that all embarkation personnel are present for testing.

SOP FOR EMBARKATION

2. Aircraft Load Planning. The same personnel will prepare a C-130 and a C-141 aircraft load plan. One load plan will be done manually, the other using CALM. Specific data on personnel, vehicles, and equipment for each load will be provided.

3. SAAM Request. One embarker will be selected to prepare a SAAM request using the Message Text Format (MTF) Program reflecting one of the above aircraft loads.

SOP FOR EMBARKATION

APPENDIX B

LOGISTICS/EMBARKATION PERSONNEL REPORT

4600
4Emb
Date

From Commanding Officer
To: Commanding General, 3rd Marine Division (G-4/Emb)

Subj: LOGISTICS/EMBARKATION PERSONNEL REPORT

Ref: (a DivO P4600.1H

1. Per the reference, the following report is submitted:

<u>NAME</u>	<u>RANK</u>	<u>SSN/MOS</u>	<u>BILLET</u>	<u>UNIT</u>	<u>RTD</u>	<u>SCHOOLS</u>
EMBARK, I.M.	CWO2	123456789/0430	EMBO	4TH MAR	OCT 96	A, B, C, E
LOGIE, I.A.	GYSGT	987654321/0491	LOGCHF	4TH MAR	JUL 97	A, J
MARINE, B.J.	LCPL	423232345/0431	EMBCLK	1/3	DEC 96	A

2. Personnel rotating within 90 days:

<u>NAME</u>	<u>RANK</u>	<u>SSN/MOS</u>	<u>BILLET</u>	<u>UNIT</u>	<u>RTD</u>
EMBARK, I.M.	CWO2	123456789/0430	EMBO	4TH MAR	1 OCT 96

3. Listed below are the school codes for the above embark personnel:

- (a) Basic Embarkation/Logistics Specialist Course
- (b) Embarkation Officer/SNCO Course
- (c) AMC Affiliation Load Planners/Equipment Prep Course
- (d) Airlift of Hazardous Materials Course
- (e) Strategic Mobility Course
- (f) JOPEs Training
- (g) Air Mobility School
- (h) Basic Crane Operators Course
- (i) Team Embarkation Officer/Assistant Course
- (j) Combat Service Support Chiefs Course
- (k) Defense Packaging of Hazardous Materials Course
- (l) Transportation and Stowage of Hazardous Materials
- (m) Surface Deployment Planning Course

SOP FOR EMBARKATION

Subj: LOGISTICS/EMBARKATION PERSONNEL REPORT

- (n) Air Deployment Planning Course
- (o) Shiploading and Stowage Course
- (p) Ocean Transportation and Marine Terminal Operations Course

Note: List other courses as required

4. Point of contact is Sgt Embark (S-4), DSN 622-9588.

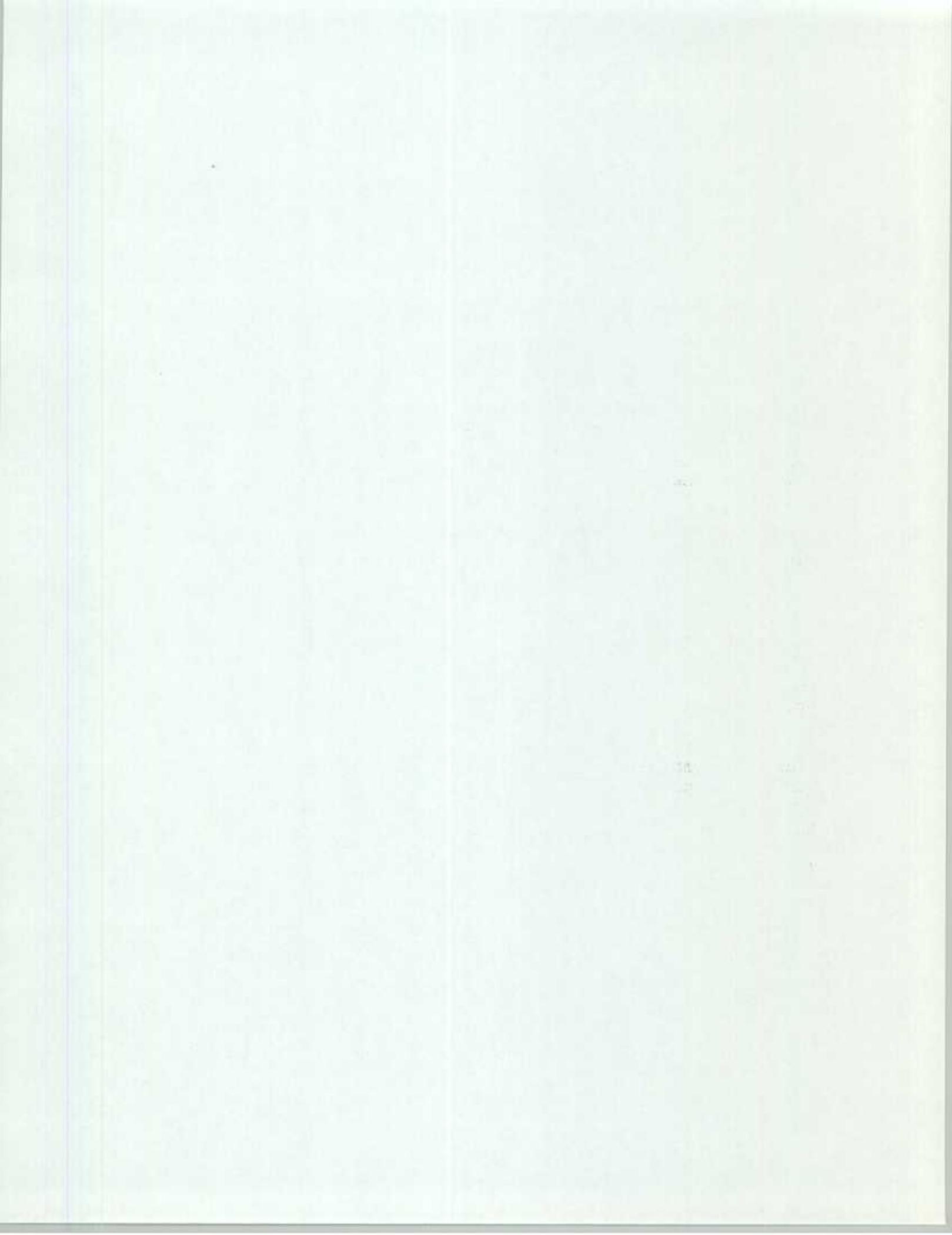
Signature

SOP FOR EMBARKATION

APPENDIX C

UNIT EQUIPMENT SUPPLY LIST (UESL) PRINTOUT

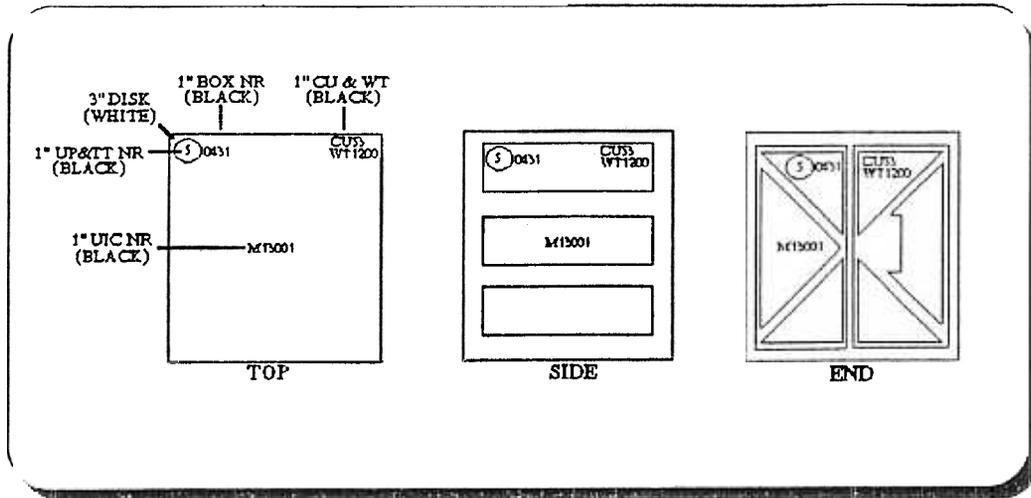
UEC	Serial Number	Item ID	Description	WT	L	W	HT	CUBE	SG	CCC	QTY	UPTT	SEC	Remarks
M13001	0102	A0662	T/E EXCESS	100	28	36	18	11		7 J3B	1	04	S1	
M13001	0103	A0662	YUK-85	100	28	36	18	11		7 J3B	1	04	S1	
M13001	0104	A0662	YUK-85	100	28	36	18	11		7 J3B	1	04	S1	
M13001	0105	A0662	YUK-85	100	28	36	18	11		7 J3B	1	04	S1	
M13001	0106	A0662	YUK-85	100	28	36	18	11		7 J3B	1	04	S1	
M13001	0203	007CUBE	EMBARK PUBS	150	40	17	16	7		5 J3B	10	05	S4	
M13001	0204	007CUBE	EMBARK PUBS	150	40	17	16	7		5 J3B	10	05	S4	
M13001	0205	007CUBE	EMBARK PUBS	150	40	17	16	7		5 J3B	10	05	S4	
M13001	0400	007CUBE	PRC-77	150	40	17	16	7		5 J3B	10	05	CCM A2050	
M13001	0401	007CUBE	ANGRA-39	150	40	17	16	7		5 J3B	4	05	CCM 2-A2378, 2-A2298	
M13001	3406	C4431	OVERALLS	500	48	40	41	46		14 J3B	70	05	SUP 20-C1260,30-C1170,20-C1090	
M13001	3407	C4431	OVERALLS	500	48	40	41	46		14 J3B	70	05	SUP 20-C1260,30-C1170,20-C1090	
M13001	3408	C4431	OVERALLS	500	48	40	41	46		14 J3B	70	05	SUP 20-C1260,30-C1170,20-C1090	
M13001	3409	C4431	PARKAS	500	48	40	41	46		14 J3B	50	05	SUP 01180	
M13001	3410	C4431	FIELD JACKETS	500	48	40	41	46		14 J3B	40	05	SUP 01060	
M13001	4505	STDPALLE	CAMMIE NETTING	100	40	48	40	45		14 J3B	6	05	SS 04260	
M13001	4506	STDPALLE	WATER CANS	100	40	48	18	20		14 J3B	21	02	SS 04436	
M13001	553233	01158	M998 VARIANT	5500	190	85	102	954		113 R2D	1	22	MT	
M13001	554334	01158	M998 VARIANT	5500	190	85	102	954		113 R2D	1	22	MT	
M13001	555504	01158	M998 VARIANT	5500	190	85	102	954		113 R2D	1	22	MT	
M13001	555507	01158	M998 VARIANT	5500	190	85	102	954		113 R2D	1	22	MT	
M13001	555509	01158	M998 VARIANT	5500	190	85	102	954		113 R2D	1	22	MT	
M13001	T60205101064	C4260	CAMMIE NETTING	70	50	10	39	7		5 J3B	1	05	SS MOBILE LOADED	
M13001	T60205101065	C5320	T/E DEFICIENT	175	25	21	25	9		4 J3B	1	05	S1	
M13001	T60205131346	STDPALLE	DIESEL CANS	100	40	48	18	20		14 J3B	21	11	CCM MOBILE LOADED	
M13001	T60205131347	007CUBE	T/E DEFICIENT	150	40	17	16	7		5 J3B	10	05	CCM A2050	



SOP FOR EMBARKATION

APPENDIX D

EMBARKATION MARKINGS



1. All palcons/boxes/pallet boards will be marked on the top, one end, and one side as depicted above.
2. Quadcons will be painted with two inch UIC markings (black) centered (to maximum extent possible) on top, both ends, and both sides.
3. Palcon/quadcon inserts will be painted with one inch UIC markings (black) centered on sliding top and one side.
4. Insert racks: no markings required
5. ISOs, 10 & 20 ft EMI/EMC/MCESS shelters, 350 cube refers: same as quadcons, except add serial number marking two inches (black) centered approximately six inches from top edge of item.
6. Expeditionary cans will be painted with one inch UIC markings (contrasting color) centered on both wide sides of the can.
 - a. Fuel, oil and lubricant cans will be marked with the contents in two inch letters (yellow) on the spout end of the can.
 - b. Water cans require only the UIC marking as the word "WATER" is imprinted on the side of the can.