



HEADQUARTERS MARINE CORPS



PREPOSITIONING PROGRAMS HANDBOOK

Appendix F to Marine Corps Installations & Logistics Roadmap (MCILR)

3rd Edition
2015



GLOBAL COVERAGE • FORWARD PRESENCE • CRISIS RESPONSE



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FOREWORD

The future operating environment will continue to be characterized by national and international challenges that will stretch the employment capacity of the US military and demand a force in readiness with capabilities for a global response. We must expect a security landscape characterized by volatility, instability, complexity and access challenges across all domains. The solution to today's problem requires the ability to fight across all domains in a holistic, coordinated manner along with the ability to project power and control the sea. The readiness, rapid responsiveness, flexibility, precision and strategic mobility of naval forces are essential to ensuring continued access and security in the global commons and the littoral regions that border them. As the Nation prepares for an uncertain future, the Naval Services provide essential capabilities to deter conflict, build alliances, deny sanctuary, enable influence and, when required, project power against increasingly lethal and asymmetric adversaries.

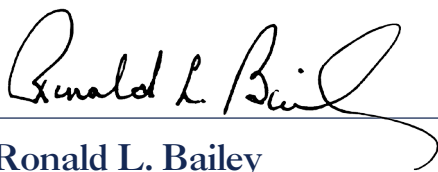
The United States of America is a maritime nation. As a global power it employs seapower to protect US interests, shape a favorable security environment, foster global security and prosperity, signal US resolve, defend the homeland, and win decisively when required.¹ The Marine Corps as a naval, expeditionary force-in-readiness provides "flexible and sustainable options from sea to the littoral" for executing the essential naval functions: all domain access, deterrence, sea control, power projection, and maritime security.² As the Nation's expeditionary force in readiness the American people expect the Marine Corps to respond quickly and to win; to do what must be done in "any clime and place" and under any conditions. These attributes will continue to shape the Marine Corps' ethos, culture, organization, training, equipment, and priorities.

Marine Corps prepositioning is a global coverage capability that is enabled by its

¹A Cooperative Strategy for 21st Century Sea Power (CS21R), March 2015, pgs. 9 and 19.

²CS21R, pg. 19.

inherent mobility and strategic laydown. Our current prepositioning operational capabilities can support limited steady state operations which are inclusive of forward presence. The objectives of forward presence being “the recurring dividends of ‘soft power’ applied with a richer military dimension; the deterrent effect of immediate, credible, and effective action to thwart potential adversaries; and the expanded operational reach and tactical flexibility to defeat foes throughout the littorals.”³ Crisis response is a critical enabler for US power projection of the right forces in the right place at the right time. Prepositioning supports the Marine Corps doctrine for rapid employment of expeditionary forces. It includes both afloat and ashore programs that are forward sited to reduce reaction time in providing combatant commanders (CCDRs) with scalable, tailorable Marine Air-Ground Task Forces (MAGTFs) to address limited objective missions for a short duration across the range of military operations (ROMO).

A handwritten signature in black ink that reads "Ronald L. Bailey". The signature is written in a cursive style and is positioned above a horizontal line.

Ronald L. Bailey

LtGen, U.S. Marine Corps

Deputy Commandant for Plans, Policies and Operations

A handwritten signature in black ink that reads "Michael G. Dana". The signature is written in a cursive style and is positioned above a horizontal line.

Michael G. Dana

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Deputy Commandant for Installations and Logistics

³Expeditionary Force 21 (EF21), 4 March 2014, pg. 2 (Forward).

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PURPOSE

The purpose and intent of this handbook is to highlight the operational and logistics aspects of the Marine Corps' prepositioning programs that have significant influence in determining the future type, quantity, configuration, and storage of equipment and supplies aboard MPF and MCPP-N. The future inventory is developed through a deliberate and coordinated planning process known as Tailoring.

Chapter 1 provides an overview of the MPF and the MCPP-N programs, the characteristics of each, and key logistics planning considerations. Chapter 2 discusses Marine Corps prepositioning program management and centers around the Tailoring process which includes applying Commandant of the Marine Corps (CMC) Planning Guidance to form the notional Force List (MCBul 3501), producing the Prepositioning Objective (PO) published in the NAVMC 2907, and planning for the loading of Maritime Prepositioning Ships (MPS) throughout the MPF Maintenance Cycle (MMC). This chapter also discusses the tools available to the prepositioning programs stakeholders that assist in the Tailoring process. Chapter 3 provides an overview of Marine Corps Logistics Command (MARCOR-LOGCOM) and Blount Island Command (BIC), their participation in the Tailoring process, and the execution of the MMC.

CHAPTER 1

MARINE CORPS PREPOSITIONING PROGRAMS

The Marine Corps Prepositioning Programs consists of the MPF and MCPP-N. Each provide combatant commanders select equipment and supplies to support MAGTFs up to the size of a MEB for up to 30 days when combined with the unit's Fly-in-Echelon (FIE) of organic supplies and equipment¹.

MARITIME PREPOSITIONING FORCE

OVERVIEW

The primary purpose of the MPF program is to enable the rapid deployment and engagement of a MAGTF anywhere in the world in support of our National Defense Strategy. This strategic capability combines the capacity and endurance of sealift, the speed of airlift, and forward positioned equipment and supplies to enable a rapid response capability². The MPF concept has had a dynamic history of evolving to meet the changing needs of the geographic combatant commanders (GCC) while adapting to programmatic pressures including force structure reductions and tightening fiscal constraints. A synopsis of the evolution of the MPF Program, from its inception in the late 1970's to today's lean and flexible scalability, can be found in Appendix A.

CHARACTERISTICS

MPF Operations

An MPF operation includes the airlift of a MAGTF and Navy elements with selected equipment into an arrival and assembly area to join with equipment and supplies that are carried aboard MPS. More detail regarding the naval forces supporting MPF operations may be found in Appendix B.

An MPF operation may also consist of a Marine Expeditionary Force (MEF) interacting with more than one Maritime Prepositioning Ships Squadron (MPSRON). Figure 1 depicts the movement of an MPF MAGTF via the FIE to the Arrival and Assembly Area (AAA), the movement of the Offload Preparation Party (OPP) which prepares the MPS equipment and supplies for offload, and the movement of an MPSRON to the AAA for supplies and equipment offload. This offload may be executed at either a host nation port facility, or from seaward by means of

¹Marine Corps Order 3000.17, Marine Corps Prepositioning Programs, dated Oct 2013

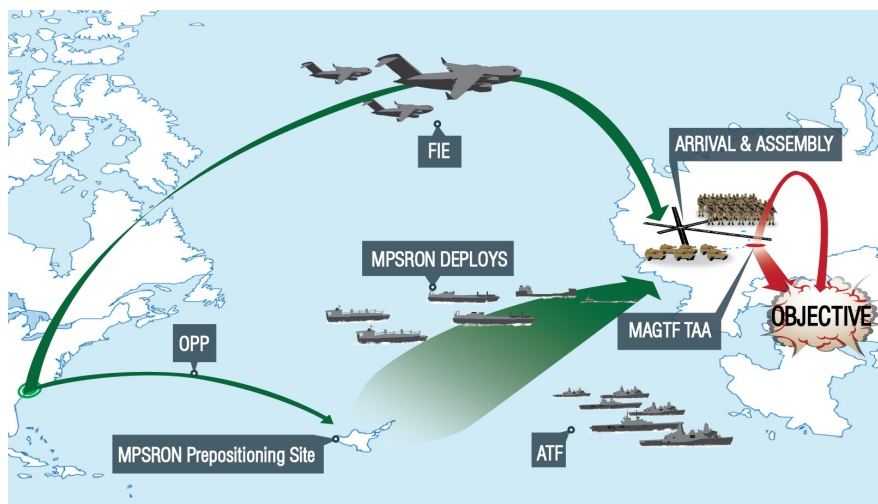
²Marine Corps War Fighting Publication (MCWP) 3-32, Maritime Prepositioning Force Operations dated 21 Nov 2011



an in-stream offload. The MAGTF then assembles with the offloaded equipment in the AAA and moves to their Tactical Assembly Areas (TAAs) from where they will advance toward the objective. Marine Corps MPF concept and employment differ from those of the sister Services. MPF is able to transition from a Major Combat Operation (MCO) focused capability to a more scalable option that supports limited employment through the selective offload of tailorable sustainment packages and at-sea transfer of personnel and equipment necessary to support conventional and Special Operations Forces (SOF). MPF provides a tailored employment option for low spectrum operations while retaining high end deployment capability, allowing MPF to be scalable across the full ROMO.

Integral to the success of an MPF operation are the actions of several organizations and units not depicted in the figure. The Survey, Liaison and Reconnaissance Party (SLRP) is deployed in advance of the MPF in order to evaluate the AAA before the arrival of MPS. The Logistics Combat Element's (LCE) Landing Force Support Party (LFSP) coordinates with the Navy Support Element's (NSE) Beach Party Team (BPT) to play a crucial role in MPF throughput. The Departure Airfield Control Group (DACG) is responsible for the throughput of personnel and equipment at the aerial port of embarkation (APOE) and the Arrival Airfield Control Group (AACG) is responsible for the same at the aerial port of debarkation (APOD). Each MSE also organizes Arrival and Assembly Operations Elements (AAOEs) that are orchestrated by the Arrival and Assembly Operations Group (AAOG) to ensure the proper distribution of supplies and equipment during the execution of arrival and assembly operations.

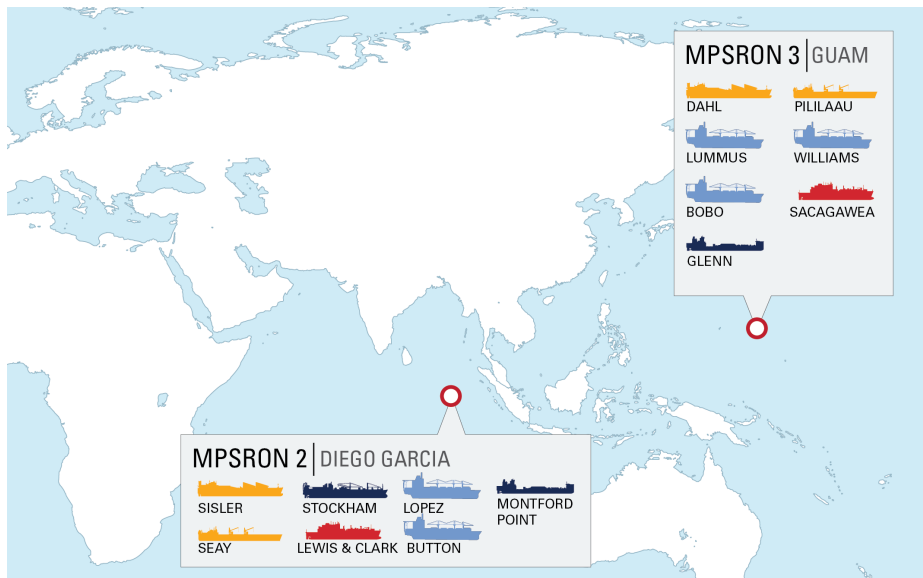
Figure 1 MPF Operation Overview



Squadron Composition

Figure 2 provides the composition of the two MPSRNs. MPSRON-2 is sited at Diego Garcia and MPSRON-3 is sited at Guam/Saipan. Although deployable anywhere around the world, only the MPSRON deployment stations are depicted.

Figure 2 MPSRON/Ship Composition and Deployment Stations



MPS assignment based on ACOM Decision Memorandum dtd 27 July 2012. Location and MPSRON composition subject to change based on service and operational requirements.

MPSRON 2 consists of: one BOB HOPE Class T-AKR (Large, Medium Speed, Roll-on/Roll-off Ships, also known as LMSRs), USNS SEAY; one WATSON Class T-AKR, USNS SISLER; two BOBO Class T-AKs (MPF Vehicle Cargo Ship), USNS BUTTON and USNS LOPEZ; one modified SHUGHART Class T-AK, USNS STOCKHAM; one LEWIS & CLARK Class T-AKE (Dry Cargo Ammunition Ship), USNS LEWIS & CLARK; and one Expeditionary Transfer Dock (ESD), USNS MONTFORD POINT³.

MPSRON 3 consists of one BOB HOPE Class T-AKR, USNS PILILAAU; one WATSON Class T-AKR, USNS DAHL; three BOBO Class T-AKs, USNS BOBO, USNS WILLIAMS, and USNS LUMMUS; one LEWIS & CLARK Class T-AKE, USNS SACAGAWEA, and one ESD, USNS JOHN GLENN.

Application of MPF Across the ROMO

In an effort to improve utility of MPF for use below the full MPSRON level, HQMC conducted programmatic-level analysis on the feasibility of tailoring individual ships to support the use of Crisis Response Force Packages (CRFPs). Whereas a full MPSRON supports up to a MEB-sized force, these new CRFPs will enable deployment and employment of both a light and medium capability in order to provide a crisis response capability below the full MEB level. Individual

ESDs, MLPs are configured with the Core Capability Set and will be referred to “ESD” hereafter.



MPS will be tailored to support this initiative to the maximum extent possible within the limitations of the individual ship's capabilities and equipment availability.

The CRFP is not additive to the MEB table of equipment (T/E), but rather a subset of equipment and supplies packaged in a manner that maintains parity between MPSRONS, while providing operating forces with a scalable response based on specific mission requirements. The CRFPs are depicted in Figure 3. MPSRONS will be tailored to provide two light crisis response packages, a medium crisis response package, or a full MPSRON.

Figure 3 | Crisis Response Force Packages (CRFP)




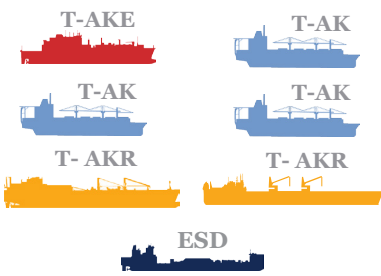
| | CRFP Light -1 | CRFP Light - 2 |
|-----------|---|--|
| Ships |  <p>T-AKE T-AKR ESD</p> |  <p>T-AKE T-AK</p> |
| FIE Force | ~ 3,900 Pax | ~ 3,000 Pax |
| Overview | <p><i>Force</i></p> <p>GCE: InfBn (rein) w/ LAVs, Tanks, Arty, AAVs LCE: DS CLB (Task-organized) ACE: R/W on-call CE: Force Recon ANGLICO</p> | <p>GCE: Inf Bn (rein) w/ LAVs, Tanks, Arty, AAVs LCE: DS CLB (Task - organized) ACE: R/W on-call CE: CAG</p> |
| | <p><i>Sustainment</i></p> <p>Force deploys with 3 DOS DOS/DOA dependent on mission and MPS inventory</p> | <p>Force deploys with 3 DOS DOS/DOA dependent on mission and MPS inventory</p> |
| | <p><i>Mobility</i></p> <p>2 Rifle Co (AAVs) 1 Rifle Co (MT) On-call ACE</p> | <p>2 Rifle Co (MT) 1 Rife Co (AAVs) On-call ACE</p> |
| | <p><i>Capability Sets</i></p> <p>AAFS, TAFDS, Sec, HERS, GERS, Elec Water, Food, Hab, Med</p> | <p>AAFS, TAFDS, Sec, HERS, GERS, Elec, Water, Food, Hab, Med</p> |
| | <p><i>Navy Capability</i></p> <p>3 CF, NSE, NCE</p> | <p>3 CF, 1 ABLTS, NSE</p> |
| | <p><i>Missions</i></p> <p>Security, HADR, DSCA, NEO, Defense</p> | <p>Security, HADR, DSCA, NEO, Defense</p> |

Figure 3 | Crisis Response Force Packages (CRFP)

| | CRFP Medium | CRFP Heavy (Full MPSRON) |
|-----------|--|--|
| Ships |  |  |
| FIE Force | ~ 7,500 Pax | ~ 15,000 - 18,000 Pax |
| Overview | <p><i>Force</i></p> <p>GCE: (2) Inf Bn (Rein) w/ LAVs, Tanks, Arty, AAV LCE: DS CLB ACE: R/W On-call CE: Force Recon ANGLICO, CAG</p> | <p>MEB-sized force centered around Infantry Regiment</p> |
| | <p><i>Sustainment</i></p> <p>Force deploys with 3 DOS DOS/DOA dependent on mission and MPS inventory</p> | <p>MPSRON deploys with up to 30 DOS (with FIE)</p> |
| | <p><i>Mobility</i></p> <p>2 Rifle Co (AAV) 4 Rifle Co (MT) On-call ACE</p> | <p>1 Bn (AAV) 1 Bn (MT) 1 Bn (Air)</p> |
| | <p><i>Capability Sets</i></p> <p>AAFS, TAFDS, Sec, HERS, ERS, Elec, Water, Food, Hab, EMF</p> | <p>All</p> |
| | <p><i>Navy Capability</i></p> <p>8 CF, 1 ABLTS, NCE, NSE</p> | <p>11 CF, 2 ABLTS, NCE, NSE, RRDF</p> |
| | <p><i>Missions</i></p> <p>Security, HADR, DSCA, NEO, Defense</p> | <p>Full ROMO</p> |



Capability Sets

In order to execute specific mission profiles across the ROMO, selected equipment and supplies have been grouped together in ISO containers or palletized on the T-AKE to create complete capability sets (e.g., all the fuel or water storage equipment co-located) and loaded in such a manner (e.g. on the weather deck or right below the hatch square) so they can be quickly accessed during offloads.

These capability sets vary according to their function, but contain necessary items that the arrival and assembly forces or advance parties need in the early stages of operations to facilitate the arrival and assembly of the MPF MEB. The containers are appropriately marked for quick identification. Appendix C provides a brief description of these capability sets and special stowage assets, and a matrix reflecting how they have been spread loaded across the MPSRONS.



Aviation Logistics Support

Marine Corps Warfighting Publication (MCWP) 3-21.2, Aviation Logistics (AVLOG), establishes doctrine for planning and executing Marine aviation logistics.

Support Equipment (SE)

SE prepositioned within the MPF is primarily composed of larger assets meeting specific height and weight criteria (e.g. aircraft tow tractors, heavy maintenance cranes, etc.), Armament Weapons Support Equipment (AWSE), and SE for limited intermediate level maintenance. The SE within the Marine Corps Prepositioning Program, when combined with SE transported into theater via the FIE, comprise all the SE required to support each Type, Model, Series (T/M/S) aircraft during the first 30 days of combat operations. The flight ferry includes the SE required for initial aircraft operations, such as debarkation, recovery, staging, reassembly, and servicing.

Expeditionary Air Field (EAF)

Airfield surfacing, arresting gear, airfield lighting, and all associated equipment for one EAF are resident within each active duty MAW. MPSRONs 2 and 3 have the required airfield surfacing (AM-2), arresting gear (M-31), and terminal guidance (Fresnel Lens) to construct an EAF; however, it should be noted that the MPSRON does not have all the additional EAF support packages required to install the modular and expanded capability of an EAF-2000. The EAF packages spread-loaded across 3 ships within each MPSRON's ships (and at the respective MAWs) can be used to construct an airfield where none exists or improve an existing airfield that does not possess the required capabilities. The components of the EAF: airfield surfacing, aircraft arrestment, airfield lighting, and visual landing aids (terminal guidance) can be used independently or as an encompassing system. Airfields can be tailored to meet the specific needs of the aircraft and mission.

Aviation Ground Support Equipment (AGSE)

AGSE is prepositioned on MPF for the MAW/MWSS and is designed and employed specifically for support of the ACE. These assets include the P-19 aircraft rescue firefighting vehicle, the Fire Suppression System (FSS), proximity firefighting ensembles (silver gear), MK-970 aircraft refueling vehicle, Helicopter Expeditionary Refueling Systems (HERS), and Tactical Aircraft Fuel Dispensing Systems (TAFDS). AGSE equipment aboard MPF, along with associated FIE requirements, provide an all-weather scalable capability that safely provides Aircraft Rescue Fire Fighting (ARFF) and fuel services to the ACE.

Marine Wing Support Squadron (MWSS) Equipment

All other equipment supporting ACE operations such as tents, trucks, forklifts, vehicles, radios, etc., are prepositioned aboard the MPSRONS for initial issue and distributed to the MWSS upon offload.

Aviation Logistics Support Ship (T-AVB)

The Aviation Logistics Support ships, T-AVBs SS WRIGHT and SS CURTISS, are not MPF assets but are in direct support of the MAGTF. These ships currently provide dedicated sealift for employment of a tailored Marine Aviation Logistics Squadron (MALS) in support of a MAGTF ACE for both fixed and rotary wing aircraft. Each ship is capable of berthing 325 Marines. For more detailed information about T-AVB characteristics and AVLOG planning considerations refer to MCWP 3-21.2 Aviation Logistics.

Naval Construction Element (NCE)

The NCE and is primarily composed of the Naval Mobile Construction Battalion (NMCB) and Naval Construction Regiment (NCR), known as "Seabees," and provides deliberate engineering support, to include major construction, facilities repair, and other general support.

The NCE is a self-sufficient organization of approximately 700 Sailors. It has its own support structure, including medical, communication, food service/messing, supply, and maintenance capabilities. Additionally, a Seabee Battalion provides for its own security, including basic ground defense with crew served weapons, security patrolling, etc.

The NCE provides the MPF MEB with a wide range of construction capabilities. One company of the battalion provides "horizontal" construction; such as roads, airfields, and site preparation. Another company specializes in "vertical" construction of buildings and other structures. A third company, the utilities company, accomplishes electrical, plumbing and other utility work. The Battalion Headquarters Company provides all the internal support functions for the unit.



Examples of the diverse missions that can be accomplished by the Seabee Battalion include support of the EAF, construction and maintenance of troop billeting, roads, standard and non-standard bridging, fuel storage and ammunition supply points, water wells, and bulk storage facilities.

Expeditionary Medical Facility (EMF)

An EMF is loaded aboard one MPS of each MPSRON providing a 150 bed facility. Once off-loaded, the EMF provides comprehensive medical support for a theater facility capable of level III treatment and hospitalization. Figure 4 provides a list of Expeditionary Medical Facility's Level III Capabilities.

The EMF is available to support Marine Corps missions as directed by the Combatant Commander or Naval Component Commander. Medical personnel who assemble and operate the EMF are deployed from various Navy medical commands and flown into theater during a contingency.

Figure 4 | Expeditionary Medical Facility Level III Capability

| | |
|-------------------------------|---|
| Mission | Provide full resuscitation and emergency stabilization surgery of wounded/ill patients with the goal of maximizing return to duty for those not requiring medical evacuation rearward. |
| Capacity | 150 Beds 40 Intensive Beds 110 Intermediate beds |
| Surgical Capacity | 4 Operating Room Tables (55 admissions/36 operative procedures daily) Surgical specialties General Thoracic Urology Gynecology Orthopedics Neurosurgery Ophthalmology Anesthesiology Oral surgery General dentistry Includes Triage Limited blood bank (less frozen) |
| Supplies | Deploys with 30 days of consumables, less dated and deteriorative items 30 day blocks |
| Site Footprint | 13.45 Acres (54,035 m ²) |
| Built-up Time Required | Begins to receive casualties in 48 to 72 hours. Fully assembled in 5 days. Self-contained for daily operations Requires external support for displacement Requires links to external supply sources |
| Organic Base Support | Staff and Patient Admin Food Service Blood Management Laundry General and Medical Supplies |

MPF Fly-in Echelon (FIE) and Flight Ferry (FF)

An MPF operation employs more than just the MPS. Employing an MPF requires the strategic airlift of MAGTF personnel and a significant amount of unit organic equipment in what is known as the FIE. The FIE deploys to the AAA to assemble with the equipment and supplies offloaded from the MPS. The flight ferry is a subset of the FIE and includes the ACE's self-deploying aircraft and aerial refueling support. The equipment assigned to the FIE generally includes equipment and supplies unable to fit on MPS, critical low-density assets, high-value equipment, and supplies that were not prepositioned due to shelf life or calibration limitations. Deploying units also include in the FIE non-prepositioned equipment necessary to bring the unit to its full table of equipment (T/E) combat capability due to insufficient capacity aboard MPS. Sequencing the FIE should give the planner flexibility to deploy critical supplies or equipment to the area of operations, but must be accomplished by detailed coordination with external agencies via force deployment planning and execution systems when using the same arrival airfield. Appendix D provides the strategic airlift sortie planning considerations required to support the movement of the FIE based on the current notional MPF MEB force structure.

Navy Support Element (NSE)

The NSE is key to the execution of MPF operations. The NSE is comprised of units from the Naval Beach Group, Amphibious Construction Battalion, Assault Craft Unit, Beachmaster Unit, and the Navy Cargo Handling Battalion.

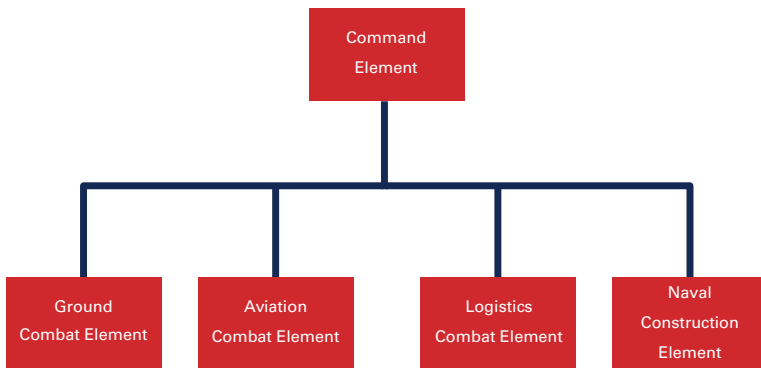
NSE units are self-sustaining and deploy as part of the FIE with 200 to 850 personnel, depending on the scope of the mission. They provide command and control, offload control unit personnel, lighterage crews, MPF utility boat crews, stevedores, transportation, maintenance elements, medical, life support and defense combat capabilities for the operation. Examples of NSE capabilities include INLS employment, Amphibious Bulk Liquid Transfer Systems (ABLTS) operations, and Beach Party Group Operations. Additional information about the NSE can be found in Appendix B.

LOGISTICS PLANNING CONSIDERATIONS

Notional Marine Expeditionary Brigade (MEB)

The notional MPF MEB is comprised of approximately 16,000 Marines and Sailors, and is sourced from its parent MEF. The organization of the MPF MEB follows traditional MAGTF relationships, depicted in Figure 5, below.

Figure 5 | Notional MPF MEB Organizational Structure



The MPF MEB Ground Combat Element (GCE) includes significant combat power consisting of tanks, artillery, assault amphibian vehicles, and light armored reconnaissance vehicles. A list of selected principal end items and supplies may be found in Table I. The notional MPF MEB also contains a robust Aviation Combat Element (ACE), Logistics Combat Element (LCE) and a Naval Construction Element (NCE) as displayed in Figure 6.

Figure 6 | Notional MPF MEB Element Composition

| <i>Components</i> | <i>Description</i> |
|----------------------------------|---|
| Command Element (CE) | Provided by the MEF headquarters. The deputy MEF commander is typically designated as the MEB commander. |
| Ground Combat Element (GCE) | Regimental Combat Team (RCT) composed of a regimental headquarters, three infantry battalions, an artillery battalion of five firing batteries, a tank battalion, two combat engineer companies, two amphibious assault companies, a light armored vehicle company, and reconnaissance units. |
| Aviation Combat Element (ACE) | Composite Marine Aircraft Group (MAG) consisting of Fixed Wing (FW), Rotary Wing (RW), and supporting units to provide all or part of the six functions of Marine Corps aviation based on the size and mission of the MAGTF. |
| Logistics Combat Element (LCE) | Combat Logistics Regiment (CLR), composed of task-organized Combat Logistics Battalion (CLB), reinforced with functional supply, maintenance, transportation, engineering, and health services, to provide the full range of tactical logistics functions necessary to accomplish the mission. |
| Naval Construction Element (NCE) | Naval Construction Regiment (NCR) Detachment and Naval Mobile Construction Battalion (NMCB) provide deliberate engineering support to the MAGTF, to include major horizontal and vertical construction, facilities repair, and other general engineering support. The NCE increases the strength and capability of the organization beyond a typical MEB. |






The notional MPF MEB Force List is crucial to the Tailoring process whereby force composition, supplies, equipment, storage, and employment are all taken into consideration in order to sustain an MPF MAGTF. During the Tailoring process, the MCBul 3501 Force List (output during Tailoring process) is updated and included as an enclosure/reference in the NAVMC 2907 Prepositioning Objective (output from the Tailoring process). Since that Tailoring cycle is continuous, depending on the maturity of the current cycle, the most up-to-date Force List will be found in the NAVMC 2907.

Ship Characteristics

Whether pier-side or in-stream, MPS have unique capabilities to deliver outsized rolling stock, tracked assets, ammunition, supplies, bulk fuel and water. The MPF program currently has 14 prepositioning ships that include six T-AKs, four T-AKRs, and two T-AKEs. Two ESDs are the latest additions to the MPF Program (2015). The MLPs will provide combatant commanders the ability to offload rolling-stock from the side-port ramp of a T-AKR at distances of 12 - 25 nautical miles from shore. Other surface connectors, such as the Landing Craft Air Cushion (LCAC) or Expeditionary Fast Transport (EFT), able to conduct vehicle or cargo transfer from the ESD to the shore.




Figure 7 provides the ship types and classes assigned to the MPF Program, their specific characteristics, and other key logistics planning considerations. This data may differ slightly from the official data in the Ship's Loading Characteristics Pamphlets (SLCPs) due to configuration adjustments made since the latest SLCP publication date. SLCPs are updated by Maritime Sealift Command (MSC) and sent to BIC for uploading to Marine Corps Prepositioning Information Center (MCPIC).

Figure 7 | MPS Select Ships' Characteristics

| MPF Ships/ Capabilities | BOBO Class | Modified SHUGHART Class | LEWIS & CLARK Class |
|---|---|---|---|
| Type Number | T-AK 3008/09/10/11/12 | T-AK 3017 | T-AKE 1, 2 |
| |  |  |  |
| | Length Overall: 673 ft Beam: 105 ft 6 in Displ: 40,846 Itons | Length Overall: 849 ft Beam: 105 ft 7 in Displ: 59,468 Itons | Length Overall: 689 ft Beam: 105 ft 7 in Displ: 42,416 Itons |
| Ship Names | USNS's BOBO, BUT- TON, LOPEZ, LUM- MUS, WILLIAMS | USNS STOCKHAM | USNS LEWIS & CLARK USNS SACAGAWEA |
| Speed (Ec/Max) | 12/17.7 kts | 18/24 kts | 14/20 kts |
| Bbl Per Day | 340 | 100 DFM/500 IFO | 400 |
| Draft | 32 ft | 36 ft | 29.8 ft |
| Medical | Sick-Call | Sick-Call | Sick-Call |
| Potable Water | 98,990 gal; 36K/day* | 160,320 gal; 19K/day | 53,000 gal; 30K/day* |
| Flight Deck | 1 Spot (LVL II, CL 3) 3012 – MV-22: Lvl II, CL4 | 1 Spot, H53 (LVL II, CL 2/4) | 1 Spot, H53 (LVL I, CL 1) MV-22: Lvl I, CL 2/4 |
| Aircraft Parking (Han- gar, etc.) | N/A | 2 MH-60s Hangar | 2 MH-60S, Hangar: 2,486 ft2, Crane 4K |
| Elevators (Cargo) | N/A | N/A | (4) 8 ST (4) 6 ST |
| Ramp (Capacities are pier side, and are reduced if operat- ing with RRDF) | Stern (Semi-Slewing) 110'Lx24'W 67.98 ST | Stern (Slewing) 138'11" L x 24'W 79.52 ST Side-port capable | N/A |
| Square Feet (Gross) (unless occupied by TEUs) | 154,000 ft2 | 258,006 ft2 | N/A |
| Cargo Cube (TEU) | 560 TEU | 545 TEU | 953,700 ft3 |
| Lift On/Lift Off Crane | (5) Cranes: 46.68 ST ea; Twin 87.36 ST; Triple 131.04 ST | 1) Twin 126.56 ST Aft (1) Single 63.84 ST Fwd | (4) Cranes 11 ST |
| Cargo Fuel (JP-5) | 1,250,000 gal | 40,000 gal | 1,160,000 gal |

* Planners should consider production quantities include water for ships' systems and crews

Figure 7 | MPS Select Ships' Characteristics

| MPS Ships/ Capabilities | BOB HOPE Class | WATSON Class | Monford Point Class |
|---|---|---|---|
| Type Number | T-AKR 304, 302 | T-AKR 311, 312 | ESD 1,2 |
| |  |  |  |
| | Length Overall: 884 ft Beam: 105ft 10 in Displ: 62,833 Iton | Length Overall: 905 ft Beam: 105 ft 9 in Displ: 61,790 Itons | Length Overall: 785 ft Beam: 164 ft in Displ: 98,320 Itons |
| Ship Names | USNS PILILAAU USNS SEAY | USNS SISLER USNS DAHL | USNS MONTFORD POINT USNS JOHN GLENN |
| Speed (Ec/Max) | 18/24 kts | 16/24 kts | 13/17 kts |
| Bbl Per Day | 425 | 775 | 475 |
| Draft | 35 ft | 33.6 ft | 39 ft |
| Medical | Sick-Call | Sick-Call | N/A |
| Potable Water | 55,014 gal; 20.5K/day | 70,646 gal; 16.5K/day | 100,000 gal; 25K/day |
| Flight Deck | 1 Spot H53 (LVL 2, CL 3/4) 302 – MV-22: Lvl II, CL 4 | 1 Spot H53 (LVL 3, CL 3/4) MV-22: Lvl II, CL 4 | 1 Spot (USCG) – MOD Emergency Only |
| Aircraft Parking (Hangar, etc.) | N/A | N/A | N/A |
| Elevators (Cargo) | N/A | N/A | N/A |
| Ramp (Capacities are pier side, and are reduced if operating with RRDF) | Stern 79.52 ST (Slewing: L135'xW24') | Stern 79.52 ST (Slewing: L135'xW24') | 1 Vehicle Transfer Ramp (VTR) (T-AKR side-port ramp, 79.52 ST) |
| Square Feet (Gross) (unless occupied by TEUs) | 315,000 ft ² | 353,000 ft ² | 25,000 ft ² |
| Cargo Cube (TEU) | 598TEU | 586TEU | 20TEU |
| Lift On/Lift Off Cranes | (2) Sets (Single 63 ST ea) (Twin – 126.56 ST) | (2) Sets - Sideport, Stern (Single 63 ST ea) (Twin – 126.56 ST) | (1) 10 LT, (2) 5 LT |
| Cargo Fuel (JP-5) | N/A | N/A | 380,000 gal |

* Planners should consider production quantities include water for ships' systems and crews



In summary, the types and classes of MPS provide a responsive, flexible and scalable capability to the MPF Program. Some of the unique features that these ships bring to the MPSRONs include the T-AK which are capable of storing and transferring to shore bulk liquids, and the T-AKE which provides break-bulk stowage and selective offload option due to its unitized and palletized cargo. The T-AKR is designed to transport and offload heavier, out-sized rolling stock and equipment. The T-AKR and ESD work in tandem to provide skin-to-skin vehicle transfer from the T-AKR to the ESD via the T-AKR's side-port. The USNS STOCKHAM, LEWIS & CLARK, and SACAGAWEA possess an aircraft refueling capability.

Figure 8 provides by-MPSRON roll-ups of selected key logistics planning considerations.

Figure 8 | MPS Select Squadron Characteristics

| <i>Squadron</i> | | | <i>MPSRON - 2</i> | <i>MPSRON - 3</i> |
|--------------------------|-------------|------------|-------------------|-------------------|
| Capacity | SqFt | Max | 1,036K Sqft | 989K Sqft |
| | | Min | 876K Sqft | 885K Sqft |
| | TEU | Max | 3,332 | 3,075 |
| | | Min | 2,409 | 2,241 |
| JP-5 Storage | | | 4.29M Gal | 5.72M Gal |
| Water Storage | | | 450K Gal | 447K Gal |
| Water Production* | | | 116K Gal/Day | 128K Gal/Day |
| Range | | | 10-12K Nm | 10-12K Nm |

** Planners should consider production quantities include water for ships' systems and crews*

MPS Berthing

A clearly defined allocation of staterooms and surge berthing greatly assists in deployment planning and ensures necessary personnel are adequately billeted aboard MPS to support MPF operations.

Billeting assignments for the Navy and Marine Corps forces during transit, pier-side and/or in-stream offloads will be coordinated between the OPP officer in charge (OIC) and the MAGTF Offload Liaison Officer (MOLO). To assist in this logistics planning process, Figure 9 reflects all available Crew, Marine Corps Maintenance Contractor (MCMC), OPP and surge berthing spaces available.

Figure 9 | MPF Ship Berthing Capacities

| Ship | Crew / MCMC Berthing | OPP / Surge |
|-----------------------|----------------------|-------------|
| MPSRON-2 | | |
| BUTTON | 44 | 136* |
| LOPEZ | 44 | 136* |
| SISLER | 45 | 127 |
| SEAY | 45 | 126 |
| STOCKHAM | 42 | 130 |
| LEWIS AND CLARK | 64 | 134 |
| MONTFORD POINT | 34 | 12** |
| Total MPSRON-2 | 318 | 801 |
| MPSRON-3 | | |
| LUMMUS | 44 | 136* |
| BOBO | 44 | 136* |
| WILLIAMS | 44 | 136* |
| PILILAAU | 45 | 126 |
| DAHL | 45 | 127 |
| SACAGAWEA | 64 | 134 |
| JOHN GLENN | 34 | 12** |
| Total MPSRON-3 | 320 | 807 |
| MPF Totals | 638 | 1608 |

**Includes 17 MPSRON staff spaces*

***Embark Security Team only*



MPS Ship-to-Shore Offload Organic Capabilities

Each MPSRON has the ability to independently offload its rolling stock and containers in-stream without the use of a port facility. Each MPSRON deploys with a 240 X 72 foot roll-on/roll-off discharge facility (RRDF) that provides a docking and ramp module to transfer primarily rolling stock ashore by connecting with either causeway ferry assemblies or other surface connectors. Rolling stock and twenty foot equivalent unit (TEU) containers are transferred ashore via the Causeway Ferry (CF). For planning purposes, the standard configuration is comprised of a 2+1 combination which includes one beach module, one intermediate module and one power module. This configuration can move the equivalent of 7 MTRVs or 14 TEUs per trip to the beach. Navy watercraft are used to move, guide, and stabilize various surface connectors during loading and beach off-load operations. Another ship-to-shore capability resident on selected MPS is the Amphibious Bulk Liquids Transfer System (ABLTS) which is comprised of 10,000 feet of 6 inch buoyant fuel hose and 10,000 feet of 4 inch buoyant water hose. The BOBO Class T-AK can pump fuel and water from up to 10,000 feet offshore from the landward discharge point. Figure 10 does not reflect capacity, but rather indicates how these capabilities are being spread-loaded across the MPSRONs based on planned configurations at the completion of MMC-11.

Figure 10 | Improved Navy Lighterage System, Watercraft, and ABLTS (Planned MMC-12 Configurations)

| Ship | Warping Tug (SLWT) | 2+1 Cause Way Ferry* | RRDF | Utility Boat | LCM-8 | LARC-V | ABLTS |
|------------------------|--------------------|----------------------|------|--------------|-------|--------|-------|
| MPSRON-2 | | | | | | | |
| SEAY | 1 | 3 | | 2 | | 2 | |
| BUTTON | 1 | 3 | | 2 | 1 | 2 | 1 |
| SISLER | 1 | 2 | | 1 | | | |
| LOPEZ | 1 | 3 | | 1 | 1 | | 1 |
| STOCKHAM | 1 | | 1 | 1 | | | |
| LEWIS AND CLARK | | | | | | | |
| MONTFORD POINT | | | | | | | |
| MPSRON Total | 5 | 11 | 1 | 7 | 2 | 4 | 2 |
| MPSRON-3 | | | | | | | |
| PILILAAU | 1 | 3 | | 2 | | 2 | |
| BOBO | 1 | 3 | | 3 | | 2 | 1 |
| DAHL | 1 | 2 | | 1 | | | |
| LUMMUS | 1 | 3 | | 1 | 1 | | 1 |
| WILLIAMS | 1 | | 1 | 1 | | | 1 |
| SACAGAWEA | | | | | | | |
| JOHN GLENN | | | | | | | |
| MPSRON Total | 5 | 11 | 1 | 8 | 1 | 4 | 3 |
| MPF Total | 10 | 22 | 2 | 15 | 3 | 8 | 5 |

**Standard 2 + 1 configuration. Other configurations include 1 + 1 (1 power module and 1 beach module), and 3 + 1 (1 power module, 2 intermediate modules, and 1 beach module)*

Although not normally considered a ship-to-shore capability, Rigid Hull Inflatable Boats (RHIB) are also available for transfer of personnel. There are two 7 meter RHIBs on each TAKE and each is capable of carrying 15 personnel, which includes a two person crew.



MPS Interoperability Considerations

MPS have been realigned into two MPSRONs. New capabilities have been introduced including completing the integration of T-AKR vessels and the introduction of the ESD and the T-AKE ships. These new platforms and concepts demand a greater degree of interoperability between ships, connectors and aircraft in order to provide the employment, selective offload of tailorable sustainment packages, and at-sea transfer of personnel and equipment. Table II provides three charts that depict the interoperability of MPS ship-to-ship, with surface connectors, and with aviation assets.

MARINE CORPS PREPOSITIONING PROGRAM–NORWAY (MCPN-N)

OVERVIEW

MCPN-N is a HQMC managed prepositioning program and is maintained in Norway in accordance with an MOU between the Government of the United States of America and the Government of the Kingdom of Norway for the storage, maintenance, and prepositioning of equipment and supplies for a MAGTF. Operating costs are shared between the Marine Corps and the Government of Norway. Maintenance for the majority of MCPN-N equipment is conducted by Norwegian government civilians, supervised by Norwegian military personnel, with oversight provided by Marine Corps Logistics Command's (MARCORLOG-COM) Blount Island Command (BIC). Some items are maintained by US personnel due to security restrictions⁴.

MCPN-N HISTORY

The Governments of the United States and Norway signed an MOU in 1981 that initiated the Norway Air-Landed Marine Expeditionary Brigade (NALMEB) Program. In 1982, a Basic Support Agreement between the Minister of Defense (MOD), Norway and the Commander-in-Chief, U.S. European Command, and a Storage Agreement between the Chief of Defense, Norway and the Commander-in-Chief, U.S. European Command solidified arrangements for the NALMEB program. Between 1985 and 1989, 673K square feet of storage facilities were built using NATO infrastructure funds. NALMEB achieved initial operational capability in January 1990.

In 2004, the Commandant of the Marine Corps directed a NALMEB bottom-up review and re-designated the program as MCPN-N to signify its change in focus as a global response capability. During April to June 2011, Headquarters U.S. Marine Corps convened a deliberate planning effort to develop options to strengthen the effectiveness of MCPN-N in a fiscally constrained environment. This resulted in recommendations to more closely align the prepositioned equipment set to strategic and operational requirements, while enhancing USMC prepositioning to better enable expeditionary operations. In January 2012, the Commandant of the Marine Corps codified the results of this planning effort by publishing his planning guidance for MCPN-N. This guidance directed the transformation of MCPN-N to an equipment set, with associated capability sets, that supports a balanced MAGTF.

⁴ MCO 3000.17



MCPP-N OPERATIONS

Based on the 2005 MOU, titled Memorandum of Understanding Governing the Pre-stockage and Reinforcement of Norway, signed by the U.S. Secretary of Defense and the Norwegian MOD, the Government of Norway provides the logistics infrastructure to support the storage, maintenance, withdrawal, movement, and recovery of prepositioned equipment and supplies. This support includes airbase facilities, transportation assets (both land and sea), security personnel, and the maintenance of prepositioned equipment. HQMC provides program guidance and oversight for MCPP-N and manages the program through the bilateral organizations as set forth in the Terms of Reference (TOR). The TOR is an agreement between the U.S. Marine Corps and Defense Staff Norway (DEFSTNOR) and sets forth the structure, functions, and responsibilities of specific agencies and organizations in support of MCPP-N.

APPLICATION OF MCPP-N ACROSS THE ROMO

MCPP-N stores equipment and supplies that support the stand-up of one or more MAGTFs conducting low to mid-intensity conflicts. The primary focus is to support a MAGTF built around a command element, an infantry battalion task force, a composite aviation squadron, and a logistics element. Support for simultaneous missions include theater security cooperation events and additional capabilities formed into adaptive force equipment sets designated for cold weather, route reconnaissance and clearance, security, bridging, and other equipment capabilities not organic to the MCPP-N MAGTF notional T/E. When augmented by the FIE, MCPP-N retains the ability to execute any of these employment options. The closure of a MEB requires amphibious or MPF augmentation in addition to the FIE.

Figure 11 | Application of MCPP-N Across the ROMO

| <i>Components of MCPP-N</i> | <i>Description</i> |
|--|---|
| MCPP-N MAGTF | This primary equipment set supports a shore-based, balanced MAGTF that is built around an infantry battalion, composite squadron and logistics element enabled for crisis response. |
| 3x Theater Security Cooperation (TSC) Special Purpose (SP) MAGTFs | Three company (REIN)-sized Special Purpose MAGTFs (SPMAGTF) engagements. |
| Adaptive Force Equipment Sets | Capabilities that are not part of the MCPP-N MAGTF organic tables of equipment (T/E) are identified and prepositioned. |
| MEB Augmentation | Additional equipment and supplies as deemed necessary and remains within a MEB's requirement can be prepositioned. |

Figure 11 depicts the components of MCPP-N. In order to support these components, the MCPP-N equipment set was developed based off the requirement to support simultaneous operations with the ability to provide additional capabilities through the use of Adaptive Force Equipment Sets. These equipment sets include:

- **Habitability:** To support quality of life for the force
- **Chemical, Biological, Radiological, and Nuclear (CBRN):** To provide consequence management, and survivability of the force
- **Arrival and Assembly:** To support the reception, staging, onward movement and integration of the MAGTF and follow-on MPF
- **Water production:** To provide sustainable water production for additional forces
- **Bridging:** To provide mobility and bridging capability to the force
- **Fuel:** To provide bulk storage and refueling capability
- **Electrical:** To provide electrical distribution to the force
- **Mountain/cold weather (M/CW):** To provide survivability for the MAGTF supporting the reinforcement of Norway.
- **Security:** Enhanced force protection to provide infrastructure, survivability and base hardening
- **Route reconnaissance and clearance (R2C):** To provide mobility and survivability of the force

MCPP-N LOGISTICS PLANNING FACTORS

The equipment and supplies that support MCPP-N are stored and maintained in six caves and two storage facilities co-located with Air Stations in the Troendelag region of central Norway. Their locations are depicted in Figure 12 and characteristics of these facilities are provided in Figure 13.

Figure 12 | MCPP-N Storage Locations



Figure 13 | MCPP-N Storage Site Characteristics

Harsh climate prevents outdoor storage/maintenance. In-rock (caves) for all Ground Equipment and Supplies. Dehumidified storage buildings for Aviation Support Equipment (ASE).

| <i>Ground Equipment</i> | | <i>Gross SqFt</i> | <i>Net SqFt</i> |
|-----------------------------------|--------------------|-------------------|-----------------|
| Frigaard | Equipment/supplies | 247,435 | 192,577 |
| Tromsdal | Equipment/supplies | 286,016 | 218,281 |
| Bjugn | Equipment/supplies | 140,458 | 118,941 |
| <i>Aviation Support Equipment</i> | | | |
| Vaernes Garrison | R/W reception site | 104,871 | 57,079 |
| Oerland Main Airstation | F/W reception site | 22,076 | 19,768 |
| <i>Munitions</i> | | | |
| Hammernesodden | Ground | 36,693 | 19,142 |
| Hammerkammen | Ground | 37,338 | 20,164 |
| Kalvaa | Air/Ground | 55,308 | 27,169 |
| Ground Totals | | 673,909 | 529,799 |
| Aviation Totals | | 126,947 | 76,847 |
| Munitions Totals | | 129,339 | 66,475 |
| Grand Total | | 930,195 | 673,121 |

Due to topological and weather conditions in Norway, special consideration must be taken when operating and maintaining equipment. Examples of these considerations include the use of tire chains which are required in Norway during certain months of the year. Also to be taken into logistics planning considerations are the unique petroleum, oils and lubricants (POL) that are required when operating in severe cold weather. Details about which oils and fuel additives are required can be found in the individual equipment technical manuals.

In order to effectively and efficiently plan and coordinate transportation and distribution of MCPP-N supplies and equipment during a withdrawal exercise, operation or contingency, Figure 14 is provided and reflects the distances in miles and kilometers between key cave locations, rail heads and ports. Transportation planning should also take into consideration Norwegian roads and highway routes that pass through small towns and villages, and routes that are channelized due to tunnels and constricting terrain features.

Figure 14 | MCPP-N Transportation Considerations

| Distances in Kilometers/ Miles | Oerland | Bjugn | Kalvaa | Frigaard | Vaernes | Hammer- kammen | Tromsdal | Hammer- nesodden |
|---|----------------|--------------|---------------|-----------------|----------------|---------------------------|-----------------|-----------------------------|
| <i>Airfields:</i> | | | | | | | | |
| Vaernes | 131/81 | 119/74 | 123/76 | 13/8 | 0 | 21/13 | 77/48 | 143/89 |
| Oerland | 0 | 14/9 | 10/6 | 133/82 | 131/81 | 144/89 | 162/100 | 167/104 |
| <i>Railheads:</i> | | | | | | | | |
| Trondheim | 100/62 | 84/52 | 88/55 | 38/24 | 36/22 | 49/30 | 106/66 | 171/106 |
| <i>Ports:</i> | | | | | | | | |
| Hommelvik | 122/76 | 109/68 | 114/71 | 15/10 | 14/9 | 27/17 | 84/52 | 150/93 |
| Trondheim | 100/62 | 84/52 | 88/55 | 38/24 | 36/22 | 49/30 | 106/66 | 171/106 |
| Orkanger | 57/35 | 68/42 | 64/40 | 76/47 | 74/46 | 87/54 | 144/89 | 209/130 |
| Uthaug | 5/3 | 14/9 | 12/7 | 137/82 | 135/84 | 149/92 | 162/100 | 167/104 |
| Paper Mill | 161/100 | 148/92 | 152/94 | 47/29 | 41/25 | 30/19 | 37/23 | 102/63 |
| Verdal | 143/89 | 129/80 | 133/82 | 66/41 | 61/38 | 50/31 | 21/13 | 84/52 |
| Hammer- nesodden | 167/104 | 154/95 | 158/98 | 148/92 | 143/89 | 131/81 | 104/64 | 0 |



HOST NATION SUPPORT

For employment in Norway, to include exercises, robust host nation support is provided by the Norwegian military to the MAGTF. Coordination for military and contracted support and services is conducted through the Norwegian National Logistics Command (NLC). Home Guard units throughout Norway provide force protection and other local support, with Home Guard 12 supporting forces falling in on MCPP-N in the Troendelag region of central Norway. Upon standup and employment of forces in Norway, the Host Nation Support Battalion (HNSBN) provides a significant service support capability and is attached to Marine Corps forces. The HNSBN mission is to provide limited logistic and engineer support to a MEB or elements of the MEB after arrival in Norway. The MEB commander will normally receive operational control (TACOM or TACON) of designated capabilities of the HNSBN once the MEB is declared operational in the Key Employment Area (KEA) within Norway. Normally, the HNSBN will be attached to the Logistics Combat Element (LCE) of the supported Marine Corps formation.



CHAPTER 2

PREPOSITIONING LOGISTICS PROGRAM MANAGEMENT

TAILORING

Overview

DC, I&L will lead, coordinate, and integrate all Marine Corps and Navy tailoring efforts. These tailoring efforts are part of a larger Tailoring Cycle that frames the deliberate and coordinated planning process to review and validate that the equipment and supplies prepositioned for MPF and MCPP-N are relevant capabilities that support operational concepts and are supportable within the Service program objective memorandum (POM).

Tailoring Cycle

There are three basic stages to the Tailoring Cycle: Guidance, Tailoring, and Execution. Operational and logistical guidance is promulgated by HQMC (PP&O and I&L). HQMC I&L will provide Tailoring guidance that is shaped by operational guidance and a myriad of logistics planning factors influenced by current and future enterprise strategies, operational demands, workforce/facility capacity, budgets, and program demands to meet maintenance and operational timelines.

Tailoring guidance will establish a plan of action and milestones (POA&M) and identify Operational Planning Team (OPT) and Tailoring Working Group (TWG) timelines, schedules, objectives and requirements. Tailoring is then conducted over a period of 12-18 months to support an upcoming MPF Maintenance Cycle (MMC), implement new operational concepts or war fighting requirements, and/or account for the fielding of new weapons systems and replacement of legacy equipment. Tailoring will be orchestrated by HQMC I&L (LPO-2) to bring program stakeholders together during multiple events, conducted over an extended period of time, to determine the future capabilities, equipment sets, and supplies for the prepositioning programs. Execution, conducted by MARCORLOGCOM (BIC), includes all actions required to implement the PO published in the NAVMC 2907. The end state of the Tailoring Cycle is an optimized and integrated Navy and Marine Corps prepositioning capability that enables the operating forces (OPFOR) to execute their concepts of operations in support of crisis response and major combat operations.

Stakeholder Engagements

Numerous engagements occur throughout the Tailoring Cycle to ensure that all stakeholders are given the opportunity to integrate their requirements into the Tailoring planning process. Tailoring OPTs and working groups review all aspects of the MPF and MCPP-N programs to optimize the future PO. Additionally, stakeholders can engage in shaping the MPF program through participation in the MPF Program Oversight Working Group (POWG) which addresses Navy and Marine Corps integration issues, or the semi-annual MCPP-N bilateral Program Management Group (PMG) which reviews prepositioned equipment and operational and deployment considerations with our Norwegian strategic partners.

PREPOSITIONING PROGRAM LOGISTICS REFERENCE TOOLS

Overview

The Tailoring process requires the synchronization of inputs that include logistics reference data; authoritative data sources regarding force structure, acquisition cycles, equipment technical data, and ship characteristics; the MPF maintenance cycle; and information from the programming and budgeting process. In addition to collating and organizing this information in a way that supports responsive decision making, the process also demands interaction with prepositioning programs stakeholders from Marine Corps and Navy service level headquarters, the supporting establishment and the operating forces. The dynamic nature of multi-variable, multi-participant decision making demands effective tools that are automated, user-friendly and populated with accurate information that is recognized as authoritative by the entire enterprise conducting the decision making.

Accordingly, HQMC I&L Logistics Plans and Operations (LPO) has coordinated the development of several prepositioning logistics reference tools. These tools include the Marine Corps Prepositioning Information Center (MCPIC), the MPF MEB Force Structure Playbook, and the Prepositioning Equipment Playbook. MCPIC, specifically the Prepositioning Decision Support and Analysis Tool (PDSAT), provides planners with analysis for current and future program decisions associated with optimizing the type and quantity of materiel prepositioned in MPF and MCPP-N. The MPF MEB Force Structure Playbook provides both equipment and personnel information for the operating force planner and tailoring process stakeholders, while the Prepositioning Equipment Playbook is a decision support tool designed for all MPF and MCPP-N stakeholders and senior leaders.

Marine Corps Prepositioning Information Center (MCPIC)

MARCORLOGCOM (BIC), in coordination with HQMC I&L (LPO-2), maintains several enabling systems that facilitate management and provide visibility of on-hand equipment and supplies for MPF and MCPP-N. MCPIC is a web-based application developed to provide a central location for information and data for MPF and MCPP-N programs. MCPIC includes four features used by prepositioning planners:

- **Prepositioning Decision Support and Analysis Tool (PDSAT):** PDSAT provides planners with analysis for current and future program decisions associated with optimizing the type and quantity of materiel prepositioned in MPF and MCPP-N. PDSAT has the ability to receive specific reports from TFSMS in order to manage unit assignments to the MEB T/E, support user review and input, conduct force composition analysis, and interface with MCPIC for equipment configuration data to assess unit distribution and ship association.
- **Prepositioning Planning System (PPS):** PPS features plans for MPF and MCPP-N (with breakdowns available for MPSRON, individual ship, and ashore sites); associated reference data; POs; Component Stock List (SL-3) identified Table of Authorized Control Numbers (TAMCNs); and parent/child association requirements.
- **Prepositioned Equipment and Supplies Viewer (PES-V):** PES-V provides users with the ability to query data for equipment and supplies deployed on MPS, as well as MCPP-N data by cave location.
- **Knowledge Management Explorer (KME):** KME, a simplified version of Microsoft Office SharePoint, is the central repository for MCPIC document control and prepositioning documents.



MCPIC is currently going through a transition to MCPIC 2.0 that will provide these capabilities in a more integrated manner. Appendix E provides selected screen shots from PDSAT and information on the transition to MCPIC 2.0.

MPF MEB Force Structure Playbook

The MPF MEB Force Structure Playbook was developed by HQMC (LPO-2) to more easily display equipment and personnel requirements at the MEB and Major Subordinate Element (MSE) levels with the ability to navigate and drill-down into company and detachment level details. This playbook is hosted on the LPO-2 SharePoint site (<https://eis.usmc.mil/site/hqmclp/lpo>).

The MPF MEB Force Structure Playbook is a one-stop shop data source for displaying a visual architecture, Military Occupational Specialty (MOS), and TAMCN level details at the company and detachment level to facilitate MARFOR validation. This tool provides data fidelity to enable more effective and efficient synchronization of personnel skill sets with equipment requirements (and vice versa) to create MAGTF and unit capabilities. This information is displayed in four interactive sections within the Playbook:

- **Information Section:** Contains purpose, instructions, POCs, and other update sections.
- **MEB Transition Section:** Allows the user to view past, current, and future Force List diagrams by fiscal year.
- **MEB Force List Section:** Contains an interactive display of the MEB broken out by MSE.
- **Reports Section:** Allows users to view indicator thresholds throughout the tool and allows them to print specific unit summaries.

In addition to assisting the MARFORs with assessing capabilities and honing in on areas that may require resource validations and/or trade-offs, the MPF MEB Force Structure Playbook provides detailed analysis and discrepancy reports based on pre-defined planning factors. Analysis report examples include: comparing equipment density to numbers of drivers, operators and mechanics in the force structure; identifying equipment parent/child relationships (e.g., prime movers to trailers); and validating MAGTF capabilities. Authoritative systems such as TFSMS, PDSAT and MCPIC are leveraged to provide data accuracy and consistency.

Appendix F provides the introductory screen shot from the MPF Force Structure Playbook.

Prepositioning Equipment Playbook

The Prepositioning Equipment Playbook was developed by HQMC I&L (LPO-2) as a decision support tool for prepositioning program stakeholders and the primary means for identifying and reconciling equipment requirements registered as PO and/or approved acquisition objective (AAO). The playbook reconciles data from several sources into an easy-to-use and dynamic database. The data links to information sources from MCPIC/PDSAT, TFSMS, Item Applications File (Item Apps), and Total Lifecycle Management-Enterprise Asset Posture Tool (TLCM-OST). By identifying inconsistencies between systems of record and authoritative data sources, the playbook provides an effective method for PO validation and refinement during the Tailoring process. The Playbook displays valuable equipment data, portrayed in several summary view sections:

- **TAMCN Breakdown Section:** Provides detailed information on every TAMCN in the prepositioning programs. Important issues related to EFIS, MPF and MCPP-N are also tracked.
- **Summary View Section:** Provides attainment ratings for commodity programs, an equipment discrepancy summary and program costs.
- **Program View Section:** Provides data similar to the Summary View, but



gives a greater focus to individual prepositioning programs.

- **TAMCN View Section:** Provides descriptions, pictures, strategic distribution and focused prepositioning data on each Principle End Item (PEI). This section has the capability to apply user-specified criteria to filter the equipment population in order to perform specific analyses.
- **Tailoring Issues Section:** Provides ability to track issues related to different categories such as associations, affordability, prepositioning criteria, fielding, and configuration requirements.

To ensure the Playbook remains a relevant decision support tool, it is accessible on the LPO SharePoint site (<https://eis.usmc.mil/site/hqmcpl/lpo>), and is viewable in any internet browser window. Other capabilities being added include: streamlining PO validation processes used by Tailoring Working Groups, and integrating ship schedules, attainment levels, and MMC data in order to mitigate equipment shortfalls.

Appendix G provides the introductory screen shot from the Prepositioning Equipment Playbook.



CHAPTER 3

MARINE CORPS LOGISTICS COMMAND (MARCORLOGCOM)/ BLOUNT ISLAND COMMAND (BIC)

OVERVIEW

MARCORLOGCOM is the lead for attaining, maintaining, and providing logistics support for Marine Corps prepositioned equipment and supplies. MARCORLOGCOM also plays a key role in the Marine Corps Prepositioning Programs by providing direct input to the determination of the PO for packaged POL for ground equipment, personal demand items, personal equipment, health service support (HSS) supplies, and repair parts. BIC, a subordinate command of MARCORLOGCOM, plans, coordinates, and executes the repair, replacement, stock rotation, and load planning efforts for the Prepositioning Programs.

THE MPF MAINTENANCE CYCLE (MMC)

BIC executes the MPF mission by means of the MMC which is a continuous process that renews the equipment and supplies embarked on each MPS. Alternating between the two MPSRONS, MPS will sequentially depart assigned Areas of Operation (AO), arrive at BIC, and offload its equipment and supplies. The equipment and supplies undergo a 60–100 day process during which they are inspected, repaired, replaced, and/or rotated. The MMC process is completed when all the MPS in both MPSRONS are back-loaded with condition code A, SL-3 complete equipment and accompanying supplies. The majority of the work is done on site at BIC, but some maintenance is conducted at the depots or other locations. Replacement items are sent to BIC based on the requirements and the backload schedule for each MPS. During this same period, each MPS will undergo its own maintenance cycle at contracted shipyards within CONUS. Each ship returns to BIC upon completion of its shipyard maintenance, is back-loaded, and returns to its assigned AO. In one year during MMC-11, 1,156 active duty, government service and contractors processed approximately 2,800 principle end items and 1,300 TEUs. Figure 19 lists the dates of MMC 1 through 12. A detailed discussion of the MMC may be found in Appendix H.

Figure 15 | MMC Historical Dates

| | <i>Start</i> | <i>Finish</i> |
|---------------|--------------|---------------|
| MMC-1 | 4-Oct-86 | 2-May-89 |
| MMC-2 | 1-Jun-89 | 10-Aug-90 |
| MMC-3 | 19-Nov-91 | 19-Apr-94 |
| MMC-4 | 5-May-94 | 3-Sep-96 |
| MMC-5 | 5-Sep-96 | 12-Jan-99 |
| MMC-6 | 21-Jan-99 | 29-May-01 |
| MMC-7 | 30-May-01 | 17-Feb-04 |
| MMC-8 | 1-Dec-03 | 3-Jul-07 |
| MMC-9 | 30-May-07 | 21-Jul-10 |
| MMC-10 | 15-Sep-10 | 14/01/14 |
| MMC-11 | 23-Jan-14 | 14-Feb-17 |
| MMC-12 | Feb-17 | Feb-20 |

Note: Operations Desert Shield/Desert Storm (DS/DS) occurred during MMC-2 and MMC-3. This is the only time the Marine Corps ceased MMC operations at Blount Island Command (BIC) as they deployed to Al Jabil to conduct Reconstitution planning.

APPENDICES

APPENDIX A: MPF HISTORY

The history of the MPF Program is provided below and reflects the development and refinement of the program since inception. They include the development and growth of the program, the enhancement of the program’s capabilities, and MPF realignment.

1977-1980 (Origin)

In 1977, Presidential Review Directive 18 was signed by President Carter and created the Rapid Deployment Joint Task Force (RDJTF) to fill the gap in military forward presence in the Persian Gulf. By 1980, the Marine Corps had equipment and supplies aboard seven MSC chartered vessels as part of an interim prepositioning and forward presence capability known as the Near Term Prepositioning Force (NTPF).

These dedicated ships were loaded in Wilmington, North Carolina in July 1980 and the NTPF became fully operational in 1981. The equipment and ship maintenance for the NTPF was conducted in Naha, Okinawa and Subic Bay Naval Base, Republic of the Philippines during designated maintenance periods. In 1981, planning was initiated for a more permanent prepositioning force.

Marine Corps Logistics Base, Albany, Georgia began to obtain equipment and 30 days of supplies (all classes) for the permanent prepositioning force. Concurrently, MSC began contracting for ship conversions and for new ships. The result was 13 ships organized into three squadrons, depicted in the below figure and strategically located to support global coverage. The MPF program became operational between 1984 and 1986.

The Original 13 MPS

| Operating Company | <i>Waterman</i> | <i>Maersk</i> | <i>Amsea</i> |
|-------------------|------------------------------------|---|--|
| Vessel Name | SS OBREGON SS KOCAK SS PLESS | MV HAUGE MV PHILLIPS MV BONNYMAN MV BAUGH MV ANDERSON | MV LUMMUS MV BUTTON MV LOPEZ MV WILLIAMS MV BOBO |
| Maximum Speed | 20 knots | 16.4 knots | 17.7 knots |
| Draft | 34 feet/ 10.36 meters | 33 feet/ 10.05 meters | 33 feet/ 10.05 meters |
| Range | 13,000 NM | 10,000 NM | 12,000 NM |

Note: Data provided as general ship capacity/capability. Actual numbers may vary and should be confirmed with the MPSRON Staff or MSC.

The Original 13 MPS

1984-1986 (Activating MPF)

MPSRON-1 became operational in 1984 on the U.S. east coast, supporting the 6th Marine Amphibious Brigade (MAB) (all MABs were re-designated to MEBs in the late 1980s), and was relocated following Operation Desert Storm to the Mediterranean Sea to establish a forward presence in the European theater. MPSRON-2 replaced the NTPF ships in the Indian Ocean (Diego Garcia) in 1985 and continued to support 7th MAB based at Camp Pendleton, California. The first two squadrons were loaded at Wilmington, North Carolina in 1984-85. MPSRON-3 was established in the Pacific Ocean (Guam and Tinian) in 1986 supporting 1st MAB based in Hawaii. The third squadron was loaded at Panama City, Florida in 1986. The ammunition for all three squadrons was loaded at the Military Ocean Terminal, Sunny Point, North Carolina.

1990 (Desert Shield/Desert Storm)

Operation Desert Shield/Desert Storm (DS/DS) validated the MPF concept when the MPF supported the establishment of the first self-sustaining, operationally capable force in northern Saudi Arabia. The first battalion of the 7th MEB occupied its defensive positions within four days of the MPS arrival. The first nine MPF ships from MPSRON-2 and MPSRON-3 offloaded in August 1990 and provided equipment and 30 days sustainment for two-thirds of the Marine Corps forces ashore, as well as supporting United States Army forces. The ships of MPSRON-1 offloaded in December 1990.

1999-2003 (Enhancement Ship)

Based on lessons learned from DS/DS, enhancement ships (E-ships) were requested from Congress and in 1999, the first of three E-ships was added to the original 13 vessels, with one E-ship planned for each MPSRON. By 2003, all three E-ships, depicted in following chart, were operational. The E-ships provided additional space to support the loading of a 500 bed Fleet Hospital, a Naval Mobile Construction Battalion (NMCB) or Seabee Battalion, and an Expeditionary Airfield (EAF) to each MPSRON.

In January 2003, 11 MPS were offloaded in support of Operation IRAQI FREEDOM (OIF) and reconstituted between July and November 2003. In February 2004, selected equipment and supplies from MPSRON-2 were used in support of OIF-II.

The Enhancement MPS

| Operating Co. | <i>Keystone</i> | <i>Keystone</i> | <i>Keystone</i> |
|---------------|---|--------------------------|--------------------------|
| Vessel Name | USNS MARTIN | USNS STOCKHAM | USNS WHEAT |
| Maximum Speed | 17 knots | 24 knots | 20 knots |
| Draft | 36 feet/ 10.97 meters | 35 feet/ 10.66 meters | 35 feet/ 10.66 meters |
| Range | 16,000 NM | 12,000 NM | 12,000 NM |
| Remarks | Any water produced and stored on E-ships is to support Ship's Crew and the Offload Preparation Party (OPP). E-ships do not have any water or fuel discharge capabilities | | |

2003 (Ship Remix)

During Operation IRAQI FREEDOM, 11 MPS were already downloaded and presented an excellent opportunity to re-configure the MPS Squadrons in order to balance the square footage and container lift capability and to enable the mirror imaging of like ships in each MPSRON that is still in effect today.

A detailed analysis was conducted and the Commandant of the Marine Corps approved the concept in June 2003. That same month, a SPMAGTF was established to execute the remix, which was completed by November 2003.

As a result of the remix plan, MPSRONs were reconfigured from homogeneous composition (each squadron composed of mainly one class of ship) to heterogeneous composition (every squadron as alike as possible with regard to composition). This remix mitigated programmatic and operational challenges based on ship characteristics and load-out capabilities and increased interoperability. Ancillary benefits of this approach included increases to the overall level of training, familiarity, and technical expertise of the Navy and Marine Corps operating forces for in-stream and pier-side offloads, and provided the ship operating companies with greater flexibility to rotate crews globally.

2008-2012 (New Platform Integration & Deactivations)

The introduction of additional armor for vehicles in order to improve survivability caused excessive stress loading on the five MAERSK ships, resulting in buckling between frames on vehicle stowage decks. The decision was made to eliminate the MAERSK ships, which were also close to the end of their leasing period, and replace them with three Large, Medium Speed, Roll-on/roll-off (LMSR) ships, which are designated T-AKRs. As a result of this transition, additional capacity for containers and bulk fuel had to be leased, augmenting the MPF program by one container ship, the USNS FISHER and one fuel tanker ship, the USNS GIANELLA.

Transition to Two MPSRONS

MPSRON-2 DIEGO GARCIA



SISLER



STOCKHAM



BUTTON



LOPEZ



SEAY



LEWIS & CLARK



MONTFORD POINT *

MPSRON-3 GUAM/SAIPAN



DAHL



LUMMUS



WILLIAMS



BOBO



PILILAAU



SACAGAWEA



GLENN *

| % of MEB 30-day requirement | MPSRON-2 | MPSRON-3 |
|-----------------------------|----------|----------|
| Square Feet | 71% | 67% |
| 20-Foot Containers | 61% | 67% |
| Fuel | 37% | 50% |
| Water | 13% | 15% |

Average squadron capacity is 69% of MEB square-foot lift requirement.

**Final delivery and MPSRON assignment TBD*

2013 -2015 (MPS Realignment & New Platforms)

As agreed to by the Under Secretary of the Navy on 20 April 2012 and the President's Budget-13, MPF posture and MPSRON composition depicted above continue to support GCC-stated OPLAN requirements; provide global coverage, forward presence, and crisis response; and accepts risk. The Marine Corps views this risk as acceptable given the continued funding of two enhanced MPSRONS, comprised of sufficient lift capacity forward-deployed, along with the procurement of one additional T-AKR, two T-AKEs, and two ESDs.

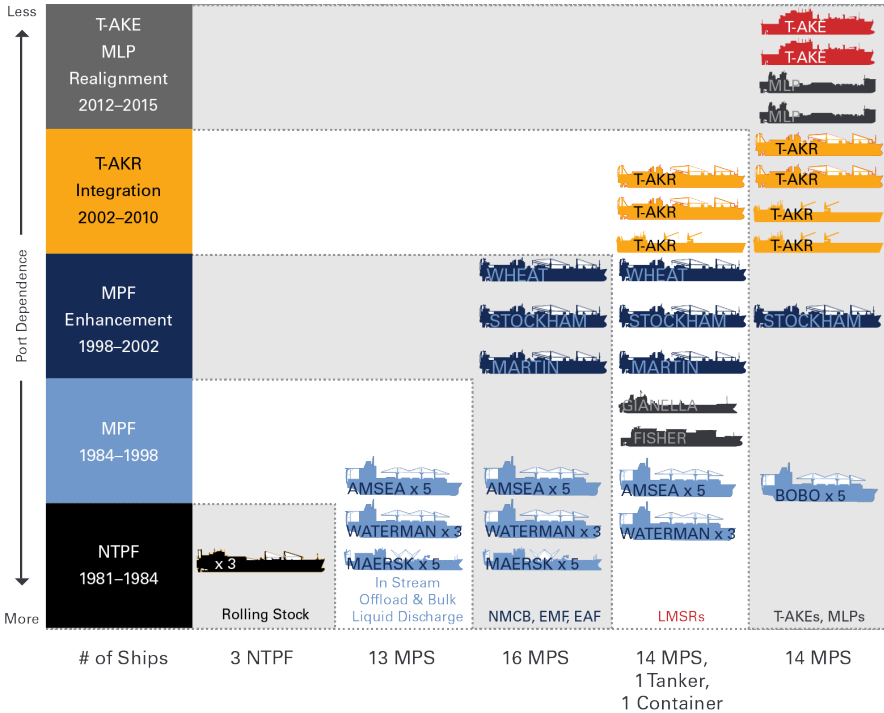
T-AKEs are uniquely designed to provide multiproduct logistics support and provide MPF break-bulk stowage and a selective offload capability. This versatile supply platform maintains robust underway replenishment capabilities for both dry and wet cargo that can re-supply other ships in the squadron and ground forces as required.

The ESD is a large auxiliary support ship that helps provide enhanced throughput capability for the MPF and facilitates delivery of vehicles, equipment, personnel, and supplies to restricted access locations ashore. These ships significantly

reduce dependency on foreign ports, provide support in the absence of a port, and are especially useful during disaster response and for supporting forces once ashore. Troops, equipment, and cargo will be transferred to the ESD by T-AKR's and then moved ashore by surface connectors.

A summary of the evolution of MPF capability from its inception to the present is provided in the diagram below.

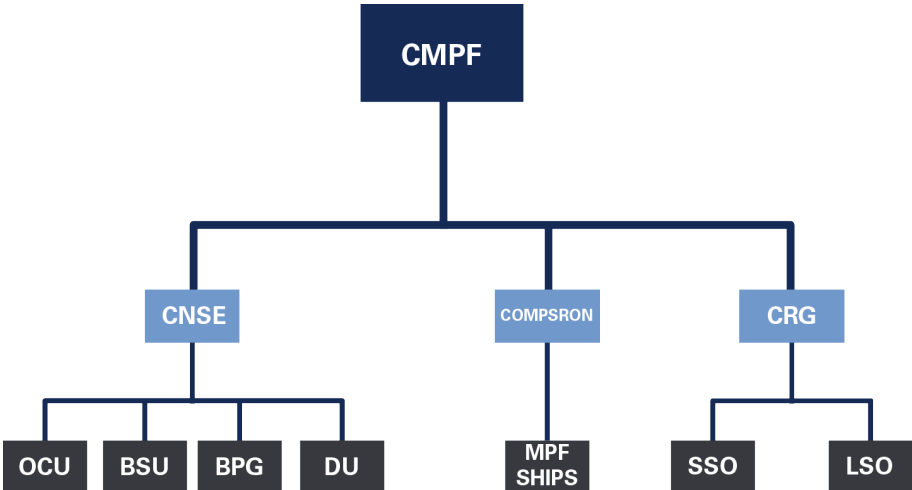
MPF Ship Evolution



APPENDIX B: NAVY FORCES SUPPORTING MPF OPERATIONS

The U.S. Navy provides critical enablers for the conduct of MPF operations. The Navy task organizes forces into four main elements to provide the critical infrastructure that facilitates the offload and reconstitution of MPF shipping.

Navy Forces Supporting MPF Operations



Commander, Maritime Prepositioning Force (CMPF): The CMPF and his staff are a task organized command element established for the offload and back-load of MPF operations. In order to best facilitate the timely and efficient conduct of MPF operations, the CMPF and his staff coordinate their actions with the MAGTF Commander and his staff. The CMPF establishes a staff to handle command functions and provide tactical level command, control and coordination of the MPS, offload elements, and seaward force protection. A depiction of this organization is provided above.

Commander, Navy Support Element (CNSE): The Naval Beach Group (NBG) Commander is normally designated Commander, NSE. The NSE supports MPF operations by providing the personnel and materiel that will facilitate the offload and backload of MPF shipping in-stream and/or pier-side. The NSE is composed of the Offload Control Unit (OCU) which directs the ship to shore movement via offload control elements (OCEs) for each ship; the Beach Support Unit (BSU) responsible for base camp, transportation, supply, construction, and lighterage support; the Beach Party Group (BPG) which provides craft to control the surf zone and vehicular/cargo control on the beach; and the Defense Unit (DU) which

provides defensive combat operations for the NSE. The NSE parent organizations and their capabilities are listed in the table below.

MPF Navy Support Element

| Parent Organizations | Critical Enablers for the conduct of MPF Operations |
|---|---|
| Amphibious Construction Battalion (ACB) | <p>Construct, operate, and maintain Navy Lighterage assets, such as causeway ferries, warping tugs, and Roll-on, Roll-off Discharge Facility (RRDF).</p> <p>Construct and operate an 850 man NSE camp for one MPSTRON. (Construct and operate a 1,200 man NSE camp when supported by ACB assets from home port.)</p> <p>NSE camps include the following capabilities: command and control, berthing, electrical generation, water purification, galley, showers, heads, medical, CBR defense, and other Quality of Life (QOL) assistance.</p> |
| Assault Craft Unit (ACU) | Operate and maintain assault craft for ship-to-shore movement and offload of MPF ships |
| Navy Cargo Handling Battalion (NCHB) | <p>Trained and equipped to load and unload Navy and Marine Corps cargo carried on MPF ships, merchant breakbulk ships, container ships, and military/commercial aircraft.</p> <p>Operate and maintain expeditionary ocean and air cargo terminals.</p> |
| Beach Master Unit (BMU) | <p>Trained and equipped to facilitate the movement of troops, supplies, and equipment over beaches to and from MPF ships.</p> <p>Trained and equipped to facilitate the evacuation of casualties and Prisoners of War (POWs).</p> |

The NSE provides the following resources for the in-stream offload of an MPSTRON:

- Crews to support the operation of 2 LCM-8s and 7 Utility Boats (UBs)
- Crews to operate 2 to 3 Amphibious Bulk Liquid Transfer Systems (ABLTS)
- Crews to man 11 Causeway Ferries (CF) (24 hour operations)
- Crews to man 5 Warping Tugs (WT) (24 hour operations)
- Hatch teams to conduct Lift-on/Lift-off (LO/LO) operations
- Crews to build and operate a Roll-On Roll-Off Discharge Facility (RRDF)

- Beach Party Teams for in-stream operations
- Manpower capability to build an 850-man NSE camp

The capabilities and manpower required for a pier-side offload of one MPSRON are significantly less than those needed for an in-stream offload. Consequently, for pier-side operations, the manning structure needed to facilitate simultaneous LO/LO and Roll-On/Roll-Off (RO/RO) operations is reduced. For pier-side operations the various Naval Commands provide sufficient personnel to the NSE units to accomplish the mission set forth in the concept of operations.

Commander, Maritime Positioning Ships Squadron (COMPSRON): The COMPSRON and his staff operate under the administrative control of the MSC, U.S. Transportation Command (USTRANSCOM) and under the operational control of a numbered fleet commander. The command relationship for the COMPSRON may change when the ships are offloaded in support of MAGTF operations. Upon completion of the offload, the ships of the MPF may remain in the area to support reconstitution or become part of the strategic sealift common user sealift pool (CUSP) for USTRANSCOM. The COMPSRON staff may remain onboard the MPS or augment personnel requirements for the numbered fleet commander. During MPF operations, the COMPSRON staff coordinates the arrival and departure of MPSRON ships to anchorage or port facilities within the AOR. In addition, the COMPSRON staff may coordinate ship movements for MSC chartered ships supporting MAGTF operations in a particular theater.

Coastal Riverine Group (CRG): Personnel, materiel, and equipment from a CRG provide force protection in the MPF Arrival Assembly Area (AAA). The Seaward Security Officer (SSO) is responsible for establishing and promulgating seaward security and exclusion zones. The Landward Security Officer (LSO) is responsible for landward surveillance and security response, including preplanned responses for threats such as terrorist, conventional, or special forces attacks. This protection is accomplished through a broad array of command, control, and harbor protection capabilities for harbor approach defense, harbor defense, and port security. The CRG equipment and supplies are not loaded aboard MPSRONS and are FIE.

APPENDIX C: MPF CAPABILITY SETS AND QUICK ACCESS/SPECIAL STOWAGE

Capability Sets are blocks of equipment packaged together to perform a specific capability. These assets are not in addition to the prepositioning objective but rather are part of it. Every attempt is made to construct these capability sets from assets belonging to the same MSE. Capability sets are designed to support arrival and assembly, humanitarian or disaster relief missions. Quick access/special stowage cargo consists of assets requiring either special handling or special access due to the nature of the mission they support. The following text provides a brief description of the capability sets and quick access/special stowage assets, and is followed by a chart that reflects how these capabilities are spread-loaded across the MPSRONS for the planned MMC-11. The TEU and pallet quantities and composition of these sets are subject to change due to changes in load configurations and refined guidance.

Capability Sets

Fuel Distribution - The Fuel Distribution Capability Set includes 4 capabilities. The Amphibious Assault Fuel System (AAFS) is the largest tactical fuel system and provides 1.2 million gallons of bulk fuel storage supporting the refueling of all MAGTF elements and equipment. The system can receive fuel from offshore, rail, tank trucks, or other storage facilities. In addition to storage, fuel can be transferred to another storage site or dispensed to individual containers, vehicles, tank trucks, and other fuel systems. Tactical Airfield Fuel Dispensing System (TAFDS) stores 320,000 gallons of fuel and is similar to the AAFS, but designed to support fueling of aviation assets. The Helicopter Expedient Refueling System (HERS) is designed for support of helicopter operations in advanced areas and remote sites. Each HERS contains eighteen 500 gallon collapsible drums and three 3,000 gallon collapsible tanks and can hold up to 18,000 gallons of fuel. The Ground Expedient Refueling System (GERS) is designed for support of ground vehicles in advanced positions. The GERS is easily transportable and highly mobile. It can operate two refueling points and is normally used in conjunction with 500-gallon collapsible fuel drums or 3,000 gallon collapsible fuel tanks.

Water – This capability set provides a bulk water capability for immediate storage and production, as well as a limited dispensing capability. This set provides an operationally flexible 80,000 gallon storage and distribution capability comprised of 20,000 gallon water storage tanks. Each set contains two tactical water purification units, each of which can produce up to 1500 gallons of fresh water per hour.

Food – Each set supports 750 to 1,000 persons, while the maximum capability supports 4,000. For a notional MPF MEB, additional equipment must be offloaded in order to support a feeding volume of approximately 16,000 Marines and Sailors.

Habitability - Each habitability set is designated to provide initial tent camp and billeting requirements and consists of single container modules, each of which can support and shelter 80 Marines.

Medical – This medical set is designated for the LCE and consists of a 20-bed surgical and holding capability. This capability set should not be confused with the Expeditionary Medical Facility discussed under the MPF Characteristics section in the document text.

Security - This capability set is designed to provide the MAGTF commander with an initial security capability to deter pilferage and terrorist activity during the offload of MPS.

Quick Access/Special Stowage

CBRN – Chemical, Biological, Radiological, and Nuclear Equipment: The notional MEB T/E does not reflect the total requirement for all CBRN assets. CBRN assets are intended to be the third suit in the MEB deployment, the other two are designated as FIE. These assets are designed for LCE-managed replacement and replenishment and also includes CBRN items that are listed as Using Unit Responsible Items (UURI) within an SL -3 for assets prepositioned aboard MPS.

Wash Rack System – Before the backload of an MPF operation, all maritime prepositioning equipment and supplies offloaded OCONUS must be washed and pass an inspection by U.S. Customs and the U.S. Department of Agriculture. The wash rack system provides the ability to wash equipment and move it to a quarantine area through the use of its crossover or can be used as two individual ramps. A new commercial grade pressure washer has been added to this set to provide operating forces a complete capability. Consumable items such as sponges, soap rags, etc. are a using unit responsibility and should be a part of the FIE.

Armoring Assembly Set – This kit provides the tools and equipment required to facilitate the cab assembly process during Arrival and Assembly. This set must be augmented by either the MTRV Wrecker, 7Ton Crane, ship's forklift or some other lifting mechanism capable of moving the cab, doors and MCTAGS from the bed of the truck. Generally these are loaded on the BOBO Class vessels due to their low deck heights which prevent MTRVs from being loaded with their cabs mounted.



MCTAGS (LVSr and MTR) – Marine Corps Transparent Armored Gun Shield: These Quick Access Containers are mainly found on the BOBO Class ships due to their limited deck heights. When motor transport assets cannot be stowed on a deck with their MCTAGS and it is not possible to mobile load them, the MCTAGS are placed inside a 20' Container and loaded on the weatherdeck for quick access. MCTAGS are compatible with all various crew-served weapon mounts while providing protection from direct small arms fire and IED fragments.

ARFF – Aircraft Rescue Fire Fighting: This capability provides the aircraft basing site with aircraft rescue/recovery and fire-fighting to support the arrival of the flight ferry and follow-on aviation operations.

EMF – Expeditionary Medical Facility: One EMF is loaded aboard one MPS of each MPSRON and provides enough equipment and supplies to establish a theater hospital facility with up to level III care. It contains 150 beds, four surgical operating tables, and contains 30 days of supply sustainment.

NSE – Navy Support Element: NSE capability sets support the NSE mission to facilitate the offload and backload of MPF shipping in-stream and/or pier-side, as well as beach support operations. They are:

NSE Headquarters (NSE HQ) – This headquarters module provides tentage, equipment, and vehicles necessary for the establishment of the stand-alone NSE headquarters.

Base Camp Module (BCM) – This module provides the tentage, equipment, vehicles and supplies for the NSE base camp.

Beach Party Module (BPM) – This module provides tentage, equipment, vehicles and amphibian vehicles to support a stand-alone Beach

Party Team.

Amphibious Bulk Liquid Transfer System (ABLTS) – This module provides the equipment and kits to support bulk water and fuel transfer.

Roll-on/Roll-off Discharge Facility (RRDF) – This module provides the equipment, vehicles, kits and lighterage to operate the RRDF.

Craft Support Module (CSM) – This module provides the tentage, vehicles, lighterage and maintenance shops required for a stand-alone capability to perform lighterage support and repair.

NCE – NCE capability sets are composed of several modules for use by the NMCB, or Seabees. They are:

Seabee Construction Module (SCM) – This core module for Seabees provides tools, equipment and sustainment for 125 personnel.

Seabee Sustainment Module (SSM) – This module provides unit level troop sustainment capabilities, as well as some spread-load equipment.

Equipment Maintenance Module (EMM) – This module provides a unit level equipment maintenance capability, as well as some spread-load equipment and sustainment capability.

P29 (Naval Construction Regiment - NCR) – This module provides command and control to Seabees assigned to the Navy Expeditionary Combat Command throughout the full ROMO.

Command and Control Module (CCM) – This module provides unit level command and control capability, as well as some spread-load equipment and sustainment capability.

P32 Construction Capability Augment (CCA) – This module provides a Water Well Drilling Rig.

EAF – Expeditionary Airfield: Each MPSRON is spread loaded with one EAF set which includes airfield surfacing (AM-2), arresting gear (M-31), and terminal guidance, but requires augmentation from aviation support packages flown in on FIE in order to install a fully operational all weather aviation forward operating base.

CAPABILITY SETS

MPSRON 2

QUICK ACCESS/SPECIAL STOWAGE

| BUTTON | LOPEZ | STOCKHAM | SISLER | SEAY | LEWIS & CLARK* |
|--------|-------|----------|--------|------|----------------|
|--------|-------|----------|--------|------|----------------|

Capability Sets

NUMBER OF TEUS OR PALLETS

| | | | | | | |
|--|----|----|----|---|----|-----|
| FUEL DISTRIBUTION SYSTEM | | | | | | |
| Amphibious Assault Fuel System (AAFS) | 37 | 34 | 54 | | | |
| Tactical Airfield Fuel Dispensing System (TAFDS) | 13 | 13 | 26 | | 13 | |
| Helicopter Expedient Refueling System (HERS) | 2 | 4 | | 2 | 2 | 6 |
| Ground Expedient Refueling System (GERS) | 2 | 2 | | 2 | 2 | 7 |
| WATER | 5 | | | | 5 | |
| FOOD (MREs) | 4 | | | | 5 | |
| HABITABILITY | 13 | | | | | 208 |
| MEDICAL | 3 | | | | | 48 |
| SECURITY | 2 | | | | | 32 |

Quick Access / Special Stowage

| | | | | | | |
|--|----|----|-----|-----|----|----|
| CHEMICAL BIOLOGICAL RADIOLOGICAL NUCLEAR (CBRN) | 6 | 6 | 6 | | | 11 |
| WASH RACK SYSTEM | 4 | 4 | 4 | 4 | 4 | |
| ARMORING ASSEMBLY SET | 2 | 1 | 2 | | | |
| COMMUNICATIONS (COMM VANS) | 6 | 7 | 2 | 6 | 2 | |
| AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) | 1 | | | | | |
| EXPEDITIONARY MEDICAL FACILITY (EMF) | | | | 168 | | |
| NSE (NSE HQ, BCM, BPM, ABLTS, RRDF, CSM) | 2 | 2 | 3 | 3 | 3 | 2 |
| SEABEE CONSTRUCTION MODULE (SCM) | | | 11 | 11 | 11 | |
| SEABEE SUSTAINMENT MODULE (SSM) | | | | | 10 | |
| SEABEE EQUIPMENT MAINTENANCE MODULE (EMM) | | | | 10 | | |
| SEABEE COMMAND AND CONTROL MODULE (CCM) | | | 8 | | | |
| SEABEE NMCB P29, NAVAL CONSTRUCTION REGIMENTS (NCR) | | 4 | | | | |
| SEABEE NMCB P32, CONSTRUCTION CAPABILITY AUGMENT (CCA) | | | 2 | | | |
| EXPEDITIONARY AIRFIELD (EAF) (FLAT RACKS) | 85 | 80 | 125 | | | |

**Numbers reflect pallet quantities.*

CAPABILITY SETS

MPSRON 3

QUICK ACCESS/SPECIAL STOWAGE

| LUMMUS | BOBO | WILLIAMS | PILILAAU | DAHL | SACAGAWEA* |
|--------|------|----------|----------|------|------------|
|--------|------|----------|----------|------|------------|

Capability Sets

NUMBER OF TEUS OR PALLETS

| | | | | | | |
|--|----|----|----|----|----|-----|
| FUEL DISTRIBUTION SYSTEM | | | | | | |
| Amphibious Assault Fuel System (AAFS) | 37 | 37 | 71 | | | |
| Tactical Airfield Fuel Dispensing System (TAFDS) | 13 | 13 | 14 | 13 | 13 | |
| Helicopter Exp Refueling System (HERS) | 2 | 2 | 2 | | | 6 |
| Ground Expedient Refueling System (GERS) | 2 | 2 | | 2 | 2 | 7 |
| WATER | | 5 | | 5 | | |
| FOOD (MREs) | | 4 | | 4 | | 68 |
| HABITABILITY | | 13 | | | | 416 |
| MEDICAL | | 3 | | | | 21 |
| SECURITY | | 2 | | | | 32 |

Quick Access / Special Stowage

| | | | | | | |
|--|----|----|-----|----|-----|----|
| CHEMICAL BIOLOGICAL RADIOLOGICAL NUCLEAR (CBRN) | 9 | 9 | 6 | | | 11 |
| WASH RACK SYSTEM | 4 | 4 | 4 | 4 | 2 | |
| ARMORING ASSEMBLY SET | 1 | 1 | 1 | | | |
| COMMUNICATIONS (COMM VANS) | | | | | 8 | |
| AIRCRAFT RESCUE AND FIRE FIGHTING (ARFF) | | | | 1 | 1 | |
| EXPEDITIONARY MEDICAL FACILITY (EMF) | | | | | 168 | |
| NSE (NSE HQ, BCM, BPM, ABLTS, RRDF, CSM) | 2 | 2 | 2 | 3 | 3 | 2 |
| SEABEE CONSTRUCTION MODULE (SCM) | | | 11 | 11 | 11 | |
| SEABEE SUSTAINMENT MODULE (SSM) | | | | 10 | | |
| SEABEE EQUIPMENT MAINTENANCE MODULE (EMM) | | | | | 10 | |
| SEABEE COMMAND AND CONTROL MODULE (CCM) | | | 8 | | | |
| SEABEE NMCB P29, NAVAL CONSTRUCTION REGIMENTS (NCR) | 4 | | | | | |
| SEABEE NMCB P32, CONSTRUCTION CAPABILITY AUGMENT (CCA) | | | 2 | | | |
| EXPEDITIONARY AIRFIELD (EAF) (FLAT RACKS) | 85 | 85 | 125 | | | |

**Numbers reflect pallet quantities.*

APPENDIX D: STRATEGIC AIRLIFT SORTIES

The notional MPF MEB will require strategic airlift for FIE equipment sets and capabilities needed to support the combatant commanders' mission requirements. The strategic airlift numbers provided below support a notional MPF MEB force structure's equipment as identified in the NAVMC 2907. Actual requirements depend on the execution timeline and strategic sealift available to support the overall deployment timeline.

MPF Notional Strategic Airlift Sorties

| Airlift Requirement | C-5 | C-17 | CRAF | Total |
|--|-----------|------------|-----------|------------|
| <i>Marine Air-Ground Task Force (MAGTF) Elements</i> | | | | |
| CE | 2 | 32 | 2 | 36 |
| GCE | 4 | 165 | 13 | 182 |
| LCE | 2 | 156 | 7 | 165 |
| ACE | 2 | 114 | 15 | 131 |
| NCE | 1 | 5 | 2 | 8 |
| Advance Party Equipment | 0 | 5 | 2 | 7 |
| TOTALS | 11 | 477 | 41 | 529 |
| <i>Naval Forces Supporting MPF Operations</i> | | | | |
| NSE | 3 | 14 | 6 | 23 |
| Advance Party Equipment | | 1 | | |
| TOTALS | 3 | 15 | 6 | 23 |
| MPFTOTALS | 14 | 492 | 47 | 552 |

1. Strategic airlift supports the FIE requirements of a notional MPF MEB assigned to one MPSRON. C-17 and CRAF quantities include FIE personnel.
2. Aircraft requirements based on Boeing 747. The destination airfield must have at least a 7,000 ft runway to accommodate Civil Reserve Air Fleet aircraft.
3. The airlift requirement does not include the movement of rotary wing aircraft.

APPENDIX E: MARINE CORPS PREPOSITIONING INFORMATION CENTER (MCPIC)

Developed in 2001, The Marine Corps Prepositioning Information Center (MCPIC) is a collaboration between MARCOLOGCOM (BIC) and HQMC (LPO-2). MCPIC is a web-based application developed to provide a central location for a wide spectrum of prepositioning information and data for the MPF and MCPP-N programs.



1. The Mission Framework module provides the ability to create and manage Prepositioning programmatic mission data, including MAGTF TO&E information, over multiple fiscal years. The Mission Framework is designed to provide

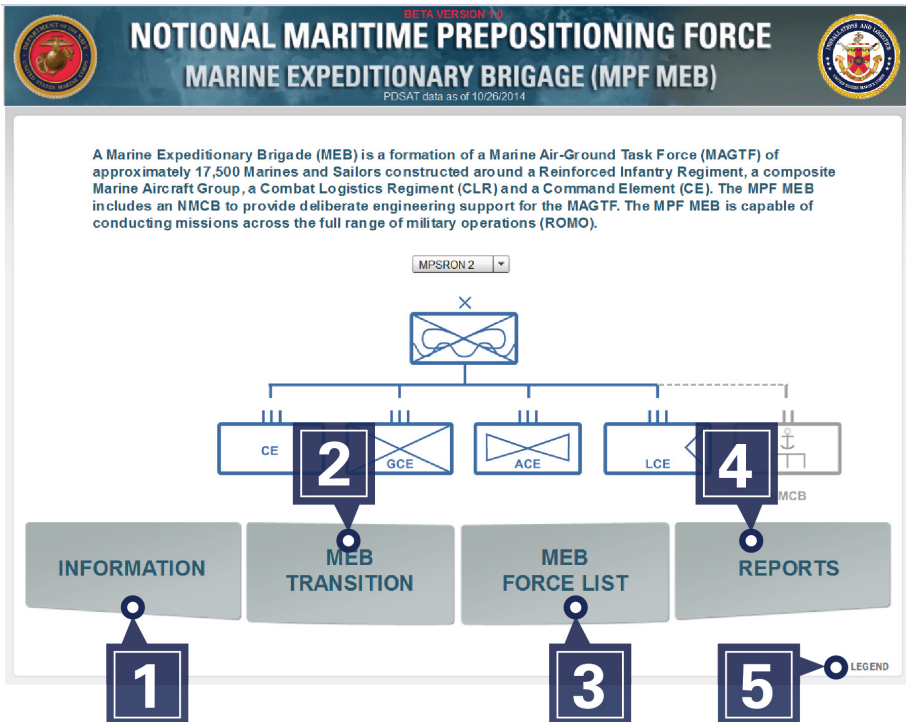
the ability to tailor the Prepositioning MEB TO&E as well as any other missions that the prepositioning programs are tasked to support.

- 2** The Prepositioning Objective Management application provides the ability to create and manage a Prepositioning Object based off of predefined mission data from the Mission Framework. The Prepositioning Objective Management application allows for the Prepositioning Objective to be broken down to the unit/detachment level in order to validate the Approved Acquisition Objective in TFSMS.
- 3** The Equipment Lifecycle Management application provides the ability to manage the reference data for equipment utilized in all MCPIC 2.0 applications. Data is automatically pulled from TFSMS and FEDLOGS in order to support the Equipment Lifecycle Manager. The application is the central location for all reference data, association data, and fielding information for MCPIC 2.0.
- 4** The MPF Maintenance Cycle (MMC) Schedule application provides users the ability to view the approved MMC Schedule.
- 5** Core Foundation Services is a centralized project management system that interacts with all other MCPIC 2.0 modules. The Core Foundation Services allows for the creation and tracking of projects and actionable tasks via other MCPIC 2.0 applications to provide a centralized view of project and task completion statuses.

APPENDIX F: MPF MEB FORCE STRUCTURE PLAYBOOK

The MPF MEB Force Structure Playbook was developed by HQMC (LPO-2) to provide a one-stop shopping tool to validate the notional MPF MEB TO&E with the ability to navigate throughout the MAGTF structure and drill-down to the company/detachment level and assess MOS and Class II/VII (A-E TAMCN) details.

The Playbook is an interactive Adobe Flex-based tool which is accessible through SharePoint (<https://eis.usmc.mil/site/hqmc/lpo>) and runs through any internet browser window. It provides a tool for the MARFORs to use during the MPF Tailoring Process to validate the notional MPF MEB requirements, balance unit T/Os with equipment (A-E TAMCNs), and validate the PO to support MARFOR operations across the ROMO. The MPF MEB Force Structure Playbook provides summary and analysis information at the MAGTF level all the way down to companies and detachments. The user can view MPSRON 2 and MPSRON 3. Summary pages show unit-specific breakouts of equipment (TAMCN level T/E, PO, and FIEs), and manpower. The Analysis sections provide roll-up and comparison metrics to assist with balancing the TO&E.



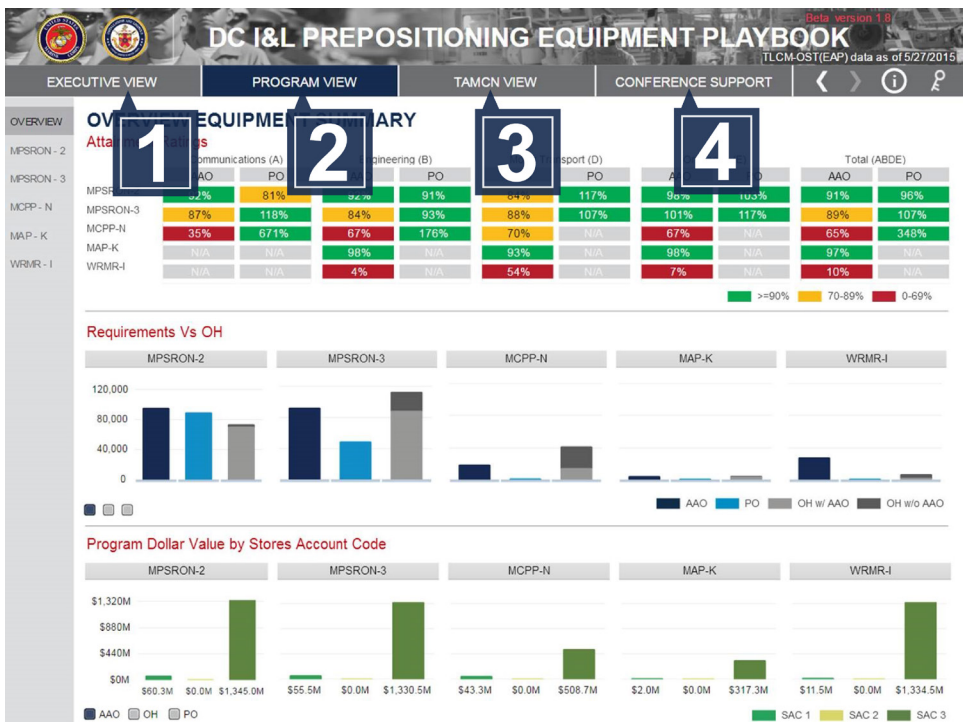
- 1.** The Information section contains purpose, instructions, POCs, and other update sections.
- 2.** The MEB Transition section allows the user to view past, current, and future transition diagrams and force lists by fiscal year.
- 3.** The MEB Force List section contains an interactive display of the MEB broken out by Major Subordinate Elements (MSE).
- 4.** The Reports section allows users to view indicator thresholds throughout the tool and allows them to print specific units' summaries.
- 5.** The Legend button at the bottom right of the page contains a Library of the force icons, symbols and names.



APPENDIX G: PREPOSITIONING EQUIPMENT PLAYBOOK

The Prepositioning Equipment Playbook was created by HQMC, I&L (LPO-2) as a decision-support tool and as the primary means for tracking equipment tailoring issues. The Playbook is an interactive Adobe Flex-based tool accessible through SharePoint (<https://eis.usmc.mil/site/hqmcpl/lpo>) and can be run through any internet browser window.

The Playbook reconciles data from several sources into an easy-to-use and dynamic decision support tool. Data sources are: PDSAT, TFSMS, Item Apps, and TLCM-OST. Future releases of the Playbook will draw data from GCSS-MC. By identifying systems of record inconsistencies, the Playbook facilitates PO validation and refinement during the MPF Tailoring Process.



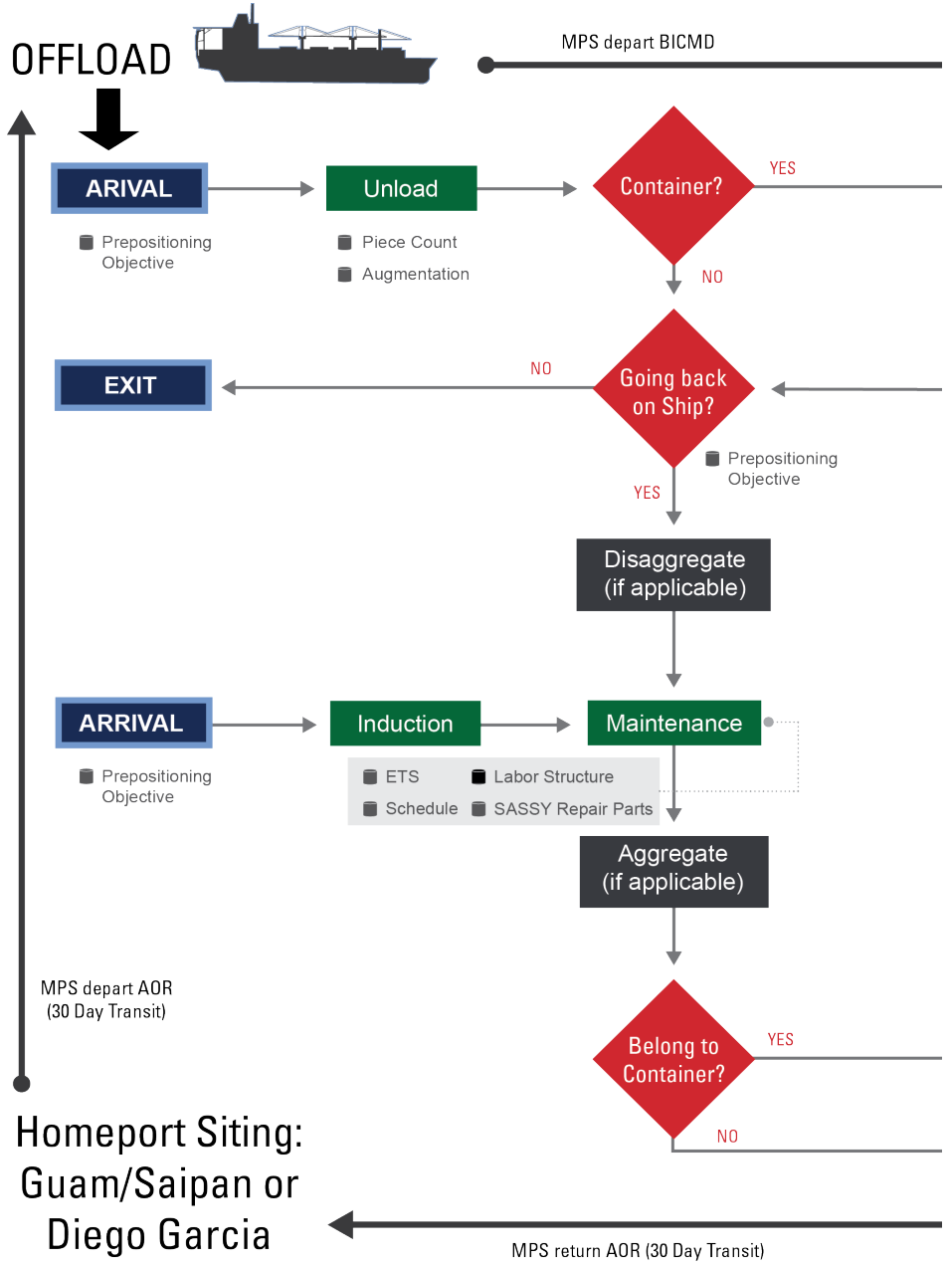
- 1 The Executive View Section provides a macro view of the enterprise and reflects relationships between programs and their advocacy by value or quantity of both AAO and On Hand.
- 2 The Program View Section provides attainment ratings for commodity programs, an equipment discrepancy summary and program costs.
- 3 The TAMCN View Section provides descriptions, pictures, strategic distribution and focused prepositioning data on each PEI. This section has the capability to analyze equipment that meets specified criteria.
- 4 The Conference Support Section provides the ability to track issues related to different categories such as association, affordability, prepositioning criteria, fielding, configuration and requirements.



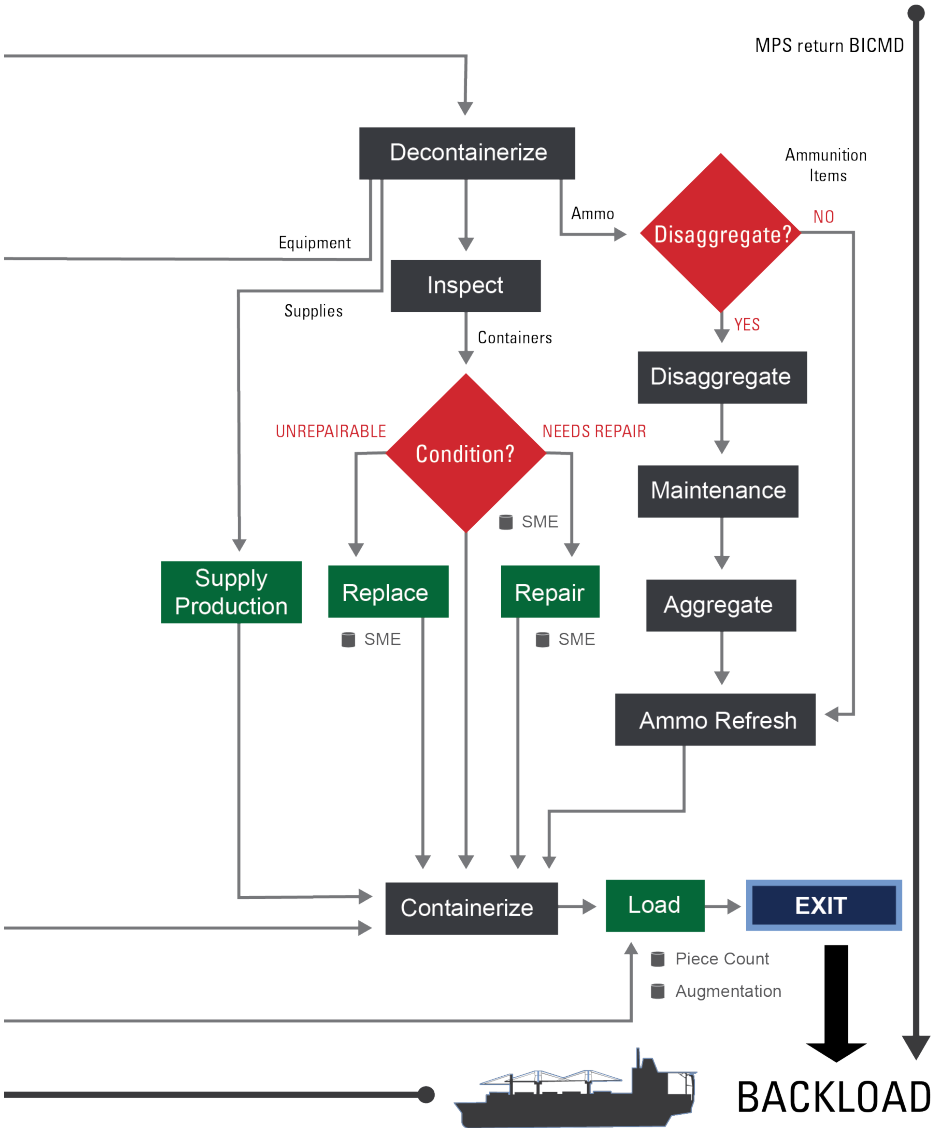
APPENDIX H: MPF MAINTENANCE CYCLE (MMC)

The MMC is a maintenance and supply regeneration, reconstitution, and embarkation operation that is focused on the combat readiness of MPF equipment and supplies. BIC generates the MMC plans and is responsible for their execution. All MMC activities are undertaken at BIC in Jacksonville, Florida with the exception of ammunition, bulk fuels and some depot maintenance required for certain assets. The MMC phase takes into account actions taken by the preceding acquisition and supply phases, and prepares the equipment and supplies and loads the MPS for the afloat phase which follows it. The MMC process, provided in the following chart, takes approximately 36 months for both MPSRONs and includes operating force, supporting establishment and Navy planning efforts. Actual ship off-load and back-load takes between 60 and 100 days. During the MMC the applicable MEF commander may assign a liaison team to BIC to not only oversee how equipment and supplies are being inspected, inventoried and packaged, but also in an effort to gain situational awareness of how the assets are loaded, configured and stowed aboard the MPS. The MPS returns from dry-dock or hull recertification, and embarkation of the revitalized equipment and supplies is then completed. Upon completion, information developed during the ship's MMC is posted into MCPIC as end-of-ship information so operating forces have access to everything needed to plan and execute an MPF offload.

The MMC Process



Ship Yard Maintenance



TABLES

TABLE I

This table provides the Prepositioning Objective (PO) of select major end items aboard the MPF and MCPP-N programs upon completion of MMC-11 (2017).

MPF & MCPP-N MAJOR END ITEMS

| Nomenclature | TAMCN | MPF* | MCPP-N | Total |
|-------------------------------|-------|------|--------|-------|
| <i>Combat Systems</i> | | | | |
| HMMWV/ECV ARMT CARRIER | D0030 | 166 | 87 | 253 |
| TRK, UTIL, ECV, TOW CARR ARMD | D0032 | 32 | 8 | 40 |
| HMMWV TOW CARR, W/SA | D1125 | 68 | 0 | 68 |
| LW HOWITZER | E0671 | 60 | 12 | 72 |
| AAV-C7 (RAM/RS) | E0796 | 18 | 1 | 19 |
| AAV-P7 (RAM/RS) | E0846 | 192 | 13 | 205 |
| AAV-R7 (RAM/RS) | E0856 | 8 | 1 | 9 |
| LAV-AT | E0942 | 8 | | 8 |
| LAV-C2 | E0946 | 2 | 1 | 3 |
| LAV-25 | E0947 | 28 | 9 | 37 |
| LAV-LOG | E0948 | 6 | 3 | 9 |
| LAV-MORTAR | E0949 | 4 | 2 | 6 |
| LAV RECOVERY | E0950 | 4 | 1 | 5 |
| TANK RECOVERY (HERCULES) | E1378 | 14 | 2 | 16 |
| TANK M1A1 | E1888 | 116 | 8 | 124 |
| <i>Mobile Communications</i> | | | | |
| ANTENNA MAST (TEAMS) | A0061 | 58 | 2 | 60 |
| RADIO SET, AN/MRC-148 | A0067 | 124 | 10 | 134 |
| RADIO SET, 50-WATT DVA | A0097 | 1176 | 181 | 1357 |
| RADIO SET, AN/VRC103(V) | A0126 | 128 | 15 | 143 |
| RADIO SET, SVA | A0135 | 352 | 151 | 503 |
| RADIO SET, AN/MRC-142C | A0153 | 42 | 3 | 45 |
| RADIO SET, AN/MRC-145 | A1957 | 160 | 29 | 189 |
| RADIO SET, AN/PRC-150C | A2042 | 294 | | 294 |
| RADIO SET, AN/TRC-170(V) | A2179 | 24 | | 24 |

* This column reflects total both MPSRONs 2 and 3. Refer to the current version of NAVMC 2907 or MCPIC for most recent selected equipment and supplies.

MPF & MCPP-N MAJOR END ITEMS

| Nomenclature | TAMCN | MPF* | MCPP-N | Total |
|---|-------|------|--------|-------|
| <i>Material Handling Equipment</i> | | | | |
| CRANE 25 TON, ATC | B0038 | 16 | 3 | 19 |
| KALMAR | B0392 | 28 | 3 | 31 |
| CRANE 7 1/2 TON | B0446 | 28 | 3 | 31 |
| FORK LIFT 10K (EBFL) | B2561 | 92 | 31 | 123 |
| FORK LIFT 5K (LRTF) | B2566 | 48 | 24 | 72 |
| <i>Mobile Electrical Power</i> | | | | |
| GENERATOR SET, 3 KW, 60 HZ | B0730 | 292 | 26 | 318 |
| GENERATOR SET, 10 KW, 60 HZ | B0891 | 84 | 50 | 134 |
| GENERATOR SET, 10 KW, 400 HZ | B0921 | 12 | 0 | 12 |
| GENERATOR SET, 30 KW | B0953 | 160 | 43 | 203 |
| GENERATOR SET, LTWT | B0980 | 24 | 10 | 34 |
| GENERATOR SET, 60 KW, 400 HZ | B1016 | 12 | 0 | 12 |
| GENERATOR SET, 60 KW, 60 HZ | B1021 | 96 | 31 | 127 |
| GENERATOR SET, 100KW, 60 HZ | B1045 | 40 | 17 | 57 |
| <i>Earth Moving Equipment</i> | | | | |
| MULTI-TERRAIN LOADER | B0040 | 20 | 9 | 29 |
| MEDIUM CRAWLER TRACTOR | B0060 | 36 | 6 | 42 |
| GRADER, MOTORIZED | B0078 | 14 | 5 | 19 |
| ASSAULT BREACHER VEHICLE | B0160 | 10 | 2 | 12 |
| M9 ARMORED COMBAT EARTHMOVER (ACE) | B0589 | 12 | 2 | 14 |
| FIRE SUPPRESSION SYS, MOBILE | B0626 | 4 | 12 | 16 |
| SCRAPER | B1922 | 10 | 2 | 12 |
| BULLDOZER MC1150 | B2460 | 24 | 2 | 26 |
| LOADER SCOOP | B2464 | 10 | | 10 |
| BACKHOE LOADER | B2483 | 20 | 7 | 27 |
| MTVR, DUMP TRUCK (ARMORED) | D0007 | 90 | 15 | 105 |
| TRK FIREFIGHTING, AIRCRAFT | D1064 | 16 | 1 | 17 |
| MTVR DUMPTRUCK | D1073 | | 6 | 6 |
| <i>Bulk Fuel And Water Storage/Movement Assets</i> | | | | |
| GROUND EXPEDIENT FUEL SYS- TEM MEDIUM | B0036 | 20 | 8 | 28 |
| SMALL GROUND EXPEDITIONARY REFUELING SYSTEM (S-GERS) | B0037 | 20 | 11 | 31 |

MPF & MCPP-N MAJOR END ITEMS

| Nomenclature | TAMCN | MPF* | MCPP-N | Total |
|--|--------------|-------------|---------------|--------------|
| SHOWER UNIT, EXP, FIELD | B0055 | 24 | 12 | 36 |
| LTWT WATER PUR SYSTEM | B0071 | 38 | 15 | 53 |
| PETROL QLTY ANAL SYS, EN | B0087 | 4 | | 4 |
| EXP WATER DIST SYSTEM (EWDS) | B0137 | 8 | 2 | 10 |
| FUEL DRUM, COLLAPSIBLE, 500 GAL | B0570 | 1296 | 126 | 1422 |
| WATER DRUM, COLLAPSIBLE, 500 GAL | B0571 | 84 | 12 | 96 |
| TANK, FABRIC, COLLAPSIBLE, 50K | B0572 | 316 | 66 | 382 |
| FUEL TANK, COLLAPSIBLE, 3000 GAL | B0573 | 36 | 18 | 54 |
| TANK, FABRIC, COLLAPSIBLE, 20K | B0574 | 180 | 50 | 230 |
| TACTICAL AIRFIELD FUEL DISPENSING SYSTEM (TAFDS) | B0675 | 10 | 5 | 15 |
| WATER POINT SUPPLY SYSTEM, FWD AREA | B0676 | 14 | 1 | 15 |
| AMPHIB ASSLT FUEL SYS (AAFS) | B0685 | 8 | 2 | 10 |
| REFUELING SYSTEM, EXP, HELO (HERS) | B1135 | 12 | 6 | 18 |
| HOSE REEL SYSTEM (HRS) | B1139 | 8 | 2 | 10 |
| STORAGETANK MODULE, FUEL (SIXCON) | B2085 | 192 | 70 | 262 |
| STORAGETANK MODULE, WATER (SIXCON) | B2086 | 330 | 58 | 388 |
| TANK, FABRIC, COLLAPSIBLE, WATER, 3000 GAL | B2130 | 88 | 55 | 143 |
| TANK, WATER, 50K GAL | B2631 | 8 | 2 | 10 |
| TANK ASSEMBLY, WATER, FABRIC, COLLAPSIBLE, 20K GAL | B2632 | 36 | 2 | 38 |

MPF & MCPP-N MAJOR END ITEMS

| Nomenclature | TAMCN | MPF* | MCPP-N | Total |
|---|-------|------|--------|-------|
| <i>Motor Transport Assets</i> | | | | |
| TRUCK, ARMORED, CARGO, 7T | D0003 | 571 | 136 | 707 |
| TRUCK, ARMORED, XLWB, 7T | D0005 | 112 | 57 | 169 |
| TRUCK, ARMORED, DUMP, 7T | D0007 | 90 | 15 | 105 |
| TRUCK, TRACTOR, 7T | D0009 | | 4 | 4 |
| CARRIER, TROOP, ARMORED, MTRV (ARMADILLO) | D0011 | 20 | 30 | 50 |
| TRUCK, ARMORED, TRACTOR, 7T | D0013 | 60 | 22 | 82 |
| TRUCK, ARMORED, WRECKER, 7T | D0015 | 66 | 13 | 79 |
| TRUCK, UTILITY: ECV 2-DR | D0022 | | 26 | 26 |
| TRUCK, UTILITY: ECV, ARMT CARRIER | D0030 | 180 | 95 | 275 |
| TRUCK, UTILITY: ECV, ARMORED 2-DR | D0033 | 224 | 88 | 312 |
| TRUCK, UTILITY: ECV, ARMORED 4-DR | D0034 | 804 | 66 | 870 |
| LVSR, ARMORED CARGO | D0052 | 195 | 38 | 233 |
| LVSR, ARMORED, WRECKER | D0054 | 18 | 7 | 25 |
| TRLR SEMI 5000GL REFUEL, MK970 (ARMD PKG) | D0215 | 60 | 26 | 86 |
| TRK, CARGO 22.5TON, 10X10, LVSR - MKR18 | D0886 | | 6 | 6 |
| TRUCK, AMBUL, 4-LTR, ARMORED | D1001 | 58 | 13 | 71 |
| TRUCK, AMBUL, 2-LTR, SOFTTOP | D1002 | 50 | 6 | 56 |
| TRUCK, XLWB, CARGO, 7T | D1062 | | 6 | 6 |
| TRK, FIRE FIGHTING, AIRCRAFT AND STRUCTURE | D1064 | 16 | 1 | 17 |
| TRUCK, UTILITY, HMMWV | D1158 | 416 | 212 | 628 |

** This column reflects total both MPSRONS 2 and 3. Refer to the current version of NAVMAC 2907 or MCPIC for most recent selected equipment and supplies.*

TABLE II MPS INTEROPERABILITY*

SHIP-TO-SHIP INTEROPERABILITY

| PLATFORM | ESD 1, 2 | T-AKE 1-2 | T-AKR 302,304 | T-AKR 311, 312 | T-AK 3008- 3012 | T-AK 3017 |
|-----------------------------|--------------|--------------|------------------|-------------------|-----------------------|--------------|
| ESD 1, 2 | | R-cdeg | T/R-ab | T/R-ab | R-bg | T/R-ab |
| T-AKE 1-2 | T-cdeg | T/R - cde | T/R -c | T/R -c | T-c | T/R -c |
| T-AKR 302,304 LMSR (BH) | T/R - ab | R-deg | T/R-bg | T/R-bg | T/R-bg | T/R-bg |
| T-AKR 311,312 LMSR (WATSON) | T/R - ab | R-c | | | | |
| T-AK 3008-3012 (BOBO Class) | T-abfg | R-deg R-c | T/R-bg | T/R-bg | T/R-bg | T/R-bg |
| T-AK 3017 (STOCKHAM) | T/R-ab fg | R-deg R-c | T/R-bg | T/R-bg | T/R-bg | T/R-bg |

Color Code

- Fully interoperable
- Limited
- Not interoperable
- Pending experimentation

Abbreviations

ESD 1, 2 – Expeditionary Transfer Dock
 LMSR – Large Medium Speed Roll On – Roll Off ship
 BH – Bob Hope class ship

Notes

- T. Transfers
- R. Receives
- a. Skin-to-Skin Roll-on / Roll-off (ramp ops)
- b. Skin-to-Skin Lift-on / Lift-off (crane ops)
- c. VERTREP
- d. CONREP (RAS)
- e. CONREP (FAS)
- f. Surface Connector
- g. Pending experimentation/validation

**All interoperability data updated as of 6 March 2015*

SURFACE CONNECTOR INTEROPERABILITY

| PLATFORM | RO/RO | LO/LO | FLO/FLO | LCAC/SSC | LCU 1600 | LCU 2000 | LCM 8 | LARC-V | INLS (f) | RRDF | MPF UB | AAV |
|---------------------------------|-------|-------|---------|----------|---------------|---------------|---------------|------------|---------------|------|--------|------------|
| | (a) | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (b) | (g,j) |
| ESD 1, 2 | Yes | Yes | Yes | Yes | Yes (a, c, k) | Yes (a, c, k) | Yes (a, c, k) | No | Yes (a, c, k) | No | (d) | Yes |
| T-AKE 1-2 | No | Yes | No | No | Yes (a, c, k) | Yes (a, c, k) | Yes (a, c, k) | No | Yes (a, c, k) | No | (d) | No |
| T-AKR 302, 304, LMSR (BOB HOPE) | Yes | Yes | No | No | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes | Yes | Yes (g, j) |
| T-AKR 311, 312, LMSR (WATSON) | | | | | | | | | | | | |
| T-AK 3008-3012 (BOBO) | Yes | Yes | No | No | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes | Yes | Yes (g, j) |
| T-AK 3017 (STOCKHAM) | Yes | Yes | No | No | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes (c, k) | Yes | Yes | Yes (g, j) |

Notes

- Limited by crane capability
- Pending – FY14/15
- LO/LO Only
- Pending – MSC engineering study
- CWF normally in a 2+1 configuration
- Launch only / No Recovery
- MPF ships only - RRF and other MSC ships cannot launch AAVs.
- Shipboard crane limited to sea-state 3

Color Code

- Fully interoperable
- Limited
- Not interoperable
- Pending experimentation

Abbreviations

- RO/RO- Roll on- Roll off
- LO/LO- Lift on- Lift off
- Flo/Flo- Float on – Float off
- LCU- Landing Craft, Utility
- LCM 8- Landing Craft, Mechanized
- LARC- Lighter, Amphibious Resupply, Cargo, 5 ton
- INLS- Improved Navy Lighterage System
- RRDF- Roll-On/Roll-Off Discharge Facility
- CWF – Causeway Ferry
- UB – Utility Boat

AVIATION INTEROPERABILITY

| SHIP | Aviation Capability | Spot-Factor ¹ / Spot | MH-60 | AH-1W | AH-1Z |
|---|--------------------------|---------------------------------|-----------|-----------|-----------|
| ESD 1 | Sized to fit aircraft | 4.47 | Yes | No | No |
| | Certified Operating Spot | 1 | Yes | No | No |
| | Hangar | No | N/A | N/A | N/A |
| T-AKE 1-2 | Sized to fit aircraft | 6.99 | Yes | Yes | Yes |
| | Certified Operating Spot | 1 | Yes (b,d) | Yes (b,d) | Yes (b,d) |
| | Hangar | 2.60 | Yes | Yes (i) | Yes (i) |
| T-AKR 302, 304 T-AKR 311, 312 (LMSR) | Sized to fit aircraft | 6.53 | Yes | Yes | Yes |
| | Certified Operating Spot | 1 | Yes (g,h) | Yes (g) | Yes (g) |
| | Hangar | No | N/A | N/A | N/A |
| T-AK 3008-3012 (BOBO CLASS) | Sized to fit aircraft | 6.53 | Yes | Yes | Yes |
| | Certified Operating Spot | 1 | Yes (g,h) | Yes (g) | Yes (g) |
| | Hangar | No | N/A | N/A | N/A |
| T-AK 3017 (STOCKHAM) | Sized to fit aircraft | 6.53 | Yes | Yes | Yes |
| | Certified Operating Spot | 1 | Yes (f,h) | Yes (g) | Yes (g) |
| | Hangar | | Yes (j) | Yes (j) | Yes (j) |

Color Code

- Fully interoperable
- Limited
- Not interoperable
- Pending experimentation

Legend

- a = Level I, Class 1: Day and night Ops with IMC; Landing area support (Service and Maintenance facilities)
b = Level I, Class 2: Day and night Ops with IMC; Landing area with Service facilities
c = Level I, Class 3: Day and night Ops with IMC; Landing area without support facilities
d = Level I, Class 4, Ty 2 (T-Line), SP2 (T-Ball): Day and night Ops with IMC; VERTREP/External Lift Area Hover in excess of 5 feet.
e = Level I, Class 5, Ty 2: Day and night Ops with IMC; VERTREP/External Lift Area Hover in excess of 15 feet.

| UH-1N | UH-1Y | CH-53E | CH-53K ² | MV-22B | RQ-21 | Remarks |
|-----------|-----------|-----------|---------------------|---------|-------|--|
| No | No | No | No | No | Yes | Spot Factor: MH-60 Spread |
| No | No | No | No | No | TBD | Coast Guard Only Spot |
| N/A | N/A | N/A | N/A | N/A | N/A | |
| Yes | Yes | Yes | Yes | Yes | Yes | Spot Factor: MV-22B Spread |
| Yes (b,d) | Yes (b,d) | Yes (b,d) | TBD | Yes | TBD | H-53 VERTREPT-Ball Line |
| Yes (i) | Yes (i) | No | No | No | TBD | Designed for (2) H-46s; (2) doors |
| Yes | Yes | Yes | Yes (k,l) | No | Yes | Spot Factor: CH-53E Spread; V-22 (Deck Strength/Heating) |
| Yes (g,h) | Yes (g,h) | Yes (g,h) | TBD | Yes (h) | TBD | No Support Facility / V-22: Vertrep only |
| N/A | N/A | N/A | N/A | N/A | N/A | |
| Yes | Yes | Yes | Yes | Yes | Yes | Spot Factor: CH-53E Spread V-22 (Deck Strength/Heating) |
| Yes (g,h) | Yes (g,h) | Yes (g,h) | TBD | Yes (h) | TBD | No Support Facility / V-22: Vertrep only |
| N/A | N/A | N/A | N/A | N/A | N/A | |
| Yes | Yes | Yes | Yes (m) | Yes | Yes | Spot Factor: CH-53E Spread V-22 (Deck Strength/Heating) |
| Yes (g,h) | Yes (g,h) | Yes (f,h) | TBD | No | TBD | No Support Facility |
| Yes (j) | Yes (j) | N/A | No | No | TBD | |

f = Level II, Class 2: Day and night Ops with VMC; Landing area with Service facilities

g = Level II, Class 3: Day and Night Ops with VMC; Landing area without support facilities.

h = Level II, Class 4: Day and Night Ops with VMC; VERTREP/External Lift Area Hover in excess of 5 feet.

i = Not Certified but will fit

j = Service facility with no maintenance

k = T-AKR 300 Class Parking up to Storm Sea (SS 7) limited not to exceed 49K lbs Longitudale and 54K lbs Athwart parking.

l = T-AKR 310 Class Parking no more than (SS 5) limited not to exceed 58.4K lbs Longitudale and 72.7K lbs Athwart parking.

m = T-AK 3017 Class Parking up to Storm Sea (SS 7) limited not to exceed 57.5K Athwart parking.

1. MH-60 Equivant (1:00 = MH60S; Spot Factor per NAEC-ENG-7604 Rev V "Maximum Density Aircraft Spotting"

2. CH-53K CDR BASELINE DESIGN HELO DECK STRUCTURAL EVALUATION FOR OPS (NSWC-Carderock Ltr 9110 over Ser 65/13-40 dtd 27 Feb 13)

TABLE III MARINE CORPS PREPOSITIONING PROGRAM REFERENCE PUBLICATIONS

MPF References

| | |
|------------------|---|
| MCO 3000.17 | Marine Corps Prepositioning Programs |
| NAVMC 2907 | Prepositioning Objective (PO) for MPF and MCPP-N |
| MCBUL 3501 | Force List for MPF MEB |
| MCWP 3-32 | Maritime Prepositioning Force (MPF) Operations |
| MCWP 3-31.7 | Seabasing |
| MCWP 3-21.2 | Aviation Logistics |
| TM 4790-14/2_ | Logistics Support for Maritime Prepositioning Force (MPF) Program Maintenance and Material Management |
| MCPIC | Marine Corps Prepositioning Information Center mcpic.bic.usmc.mil |
| LPO-2 SharePoint | https://eis.usmc.mil/site/hqmclp/lpo |

MCPP-N References

| | |
|-----------------------------------|---|
| TM 4790-14/1_ | Technical Manual with logistics support for MCPP-N procedures. |
| Memorandum of Understanding (MOU) | Government of US agreement with Government of Norway for the Prestockage and Reinforcement of Norway |
| Prepositioning Arrangement (PA) | Detailed arrangement between the US Marine Corps and the Armed Forces of Norway for the prepositioning of USMC equipment for MCPP-N. |
| Terms of Reference (TOR) | The TOR sets forth the organizational structure, functions and responsibilities of specified agencies/organizations in support of MCPP-N. |

TABLE IV

ACRONYMS AND ABBREVIATIONS

| | | | |
|----------------|--|---------------------|--|
| AAA | Arrival and Assembly Area | HSV | High Speed Vessel |
| ABLTS | Amphibious Bulk Liquid Transfer System | ISO | International Organization for Standardization |
| AAFS | Amphibious Assault Fuel System | JTF | Joint Task Force |
| AAOE | Arrival and Assembly Operations Element | LARC-V | Lighter, Amphibious Resupply Cargo |
| AAOG | Arrival and Assembly Operations Group | LAV | Light Armored Vehicle |
| AAV | Assault Amphibian Vehicle | LCE | Logistics Combat Element |
| ACB | Amphibious Construction Battalion | LCM-8 | Landing Craft, Mechanized |
| ACE | Aviation Combat Element | LMSR | Large, Medium Speed RO/RO |
| ACU | Assault Craft Unit | LO/LO | Lift-on/Lift-off |
| AGSE | Aviation Ground Support Equipment | LSO | Landward Security Officer |
| AM-2 | Airfield Matting | LVSR | LVS—Replacement |
| AMC | Air Mobility Command | MAGTF | Marine Air-Ground Task Force |
| AMSEA | American Overseas Marine Corporation | MAG | Marine Air Group |
| AO | Area of Operation | MALS | Marine Aviation Logistics Squadron |
| AOR | Area of Responsibility | MARCORLOGCOM | Marine Corps Logistics Command |
| ATF | Amphibious Task Force | MAW | Marine Aircraft Wing |
| BBL | Barrel (42 US gallons) | MCMC | Marine Corps Maintenance Contractor |
| BIC | Blount Island Command | MCPP-N | Marine Corps Prepositioning Program—Norway |
| BMU | Beachmaster Unit | MEB | Marine Expeditionary Brigade |
| CE | Command Element | MEF | Marine Expeditionary Force |
| CLB | Combat Logistics Battalion | MEU | Marine Expeditionary Unit |
| CLR | Combat Logistics Regiment | MHE | Material Handling Equipment |
| CMC | Commandant of the Marine Corps | MLG | Marine Logistics Group |
| CMPF | Commander, Maritime Prepositioning Force | MLP | Mobile Landing Platform |
| CCDR | Combatant Commander | MMC | MPF Maintenance Cycle |
| COMPSON | Commander, MPS Squadron | MOD | Ministry of Defense |
| CONUS | Continental United States | MPE/S | Maritime Prepositioned Equipment and Supplies |
| CRAF | Civil Reserve Air Fleet | MPF | Maritime Prepositioning Force |
| DoD | Department of Defense | MPS | Maritime Prepositioning Ship |
| DOS | Days of Supply or Days of Sustainment | MPSRON | Maritime Prepositioning Ships Squadron |
| EAJ | Expeditionary Airfield | MRE | Meals, Ready-to-Eat |
| EMF | Expeditionary Medical Facility | MSC | Military Sealift Command |
| E-Ship | Enhancement Ship | MTMC | Military Traffic Management Command |
| ESD | Expeditionary Transfer Dock | MTVR | Medium Tactical Vehicle Replacement |
| FF | Flight Ferry | MWSS | Marine Wing Support Squadron |
| FIE | Fly-In Echelon | NALMEB | Norway Air-Landed Marine Expeditionary Brigade |
| F/W | Fixed-Wing Aircraft | NBG | Naval Beach Group |
| GCE | Ground Combat Element | NCE | Naval Construction Element |
| HAZMAT | Hazardous Material | NMCB | Naval Mobile Construction Battalion |
| HMMWV | High Mobility, Multi-Purpose Wheeled Vehicle | | |
| HNS | Host Nation Support | | |

| | |
|-------------------|--|
| NSE | Navy Support Element |
| NTPF | Near-Term Prepositioning Force |
| OIF | Operation Iraqi Freedom |
| OPLAN | Operation Plan |
| OPNAV | Office of the Chief of Naval Operations |
| OPP | Offload Preparation Party |
| PEI | Principal End Item |
| PO | Prepositioning Objective |
| POWG | Program Oversight Working Group |
| PP&O | Plans, Policies & Operations |
| PWRM | Prepositioned War Reserve Material |
| RO/RO | Roll-On/Roll-Off |
| ROS | Reduced Operational Status |
| ROWPU | Reverse Osmosis Water Purification Unit |
| RRDF | Roll-On/Roll-Off Discharge Facility |
| R/W | Rotary-Wing Aircraft |
| SL-3 | Stock List 3 (component listing) |
| SLRP | Survey, Liaison, and Reconnaissance Party |
| SPMAGTF | Special Purpose MAGTF |
| SSO | Seaward Security Officer |
| TAA | Tactical Assembly Area |
| TAAT | Technical Assistance and Advisory Team |
| TAFDS | Tactical Airfield Fuel Dispensing System |
| T-AK | Vehicle Cargo Ship |
| T-AKE | Dry Cargo/Ammunition Ship |
| T-AKR | Large, Medium speed, Roll-on/roll-off |
| TAMCN | Table of Authorized Materiel Control Number |
| T-AVB | Aviation Logistics Support Ship |
| T/E | Table of Equipment |
| TEU | Twenty Foot Equivalent Units |
| T/O | Table of Organization |
| USMC | United States Marine Corps |
| USNS | United States Naval Ship |
| USTRANSCOM | United States Transportation Command |

CURRENT MARITIME PREPOSITIONING SHIP NAMESAKES

USNS 2ND LT
JOHN P. BOBO
(T-AK 3008)

2NDLT JOHN P. BOBO

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as Weapons Platoon Commander, Company I, Third Battalion, Ninth Marines, Third Marine Division, in Quang Tri Province, Republic of Vietnam, 30 March 1967. VIETNAM

USNS PFC
DEWAYNE T.
WILLIAMS
(T-AK 3009)

PFC DEWAYNE T.
WILLIAMS

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty while serving as a Rifleman with the First Platoon, Co H, Second Battalion, First Marines, First MarDiv in action against communist insurgent forces in the Quang Nam Province, Republic of VIETNAM

USNS 1ST LT
BALDOMERO
LOPEZ
(T-AK 3010)

1STLT BALDOMERO
LOPEZ

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as a Rifle Platoon Commander of Company A, First Battalion, Fifth Marines, First Marine Division (Reinforced), in action against enemy aggressors at the Inchon invasion, Korea, 15 September 1950. KOREA

USNS 1ST LT
JACK LUMMUS
(T-AK 3011)

1STLT JACK LUMMUS

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as Leader of a Rifle Platoon, attached to Company E, Second Battalion, Twenty-seventh Marines, Fifth Marine Division, in action against enemy Japanese forces on Iwo Jima in the Volcano Islands, 8 March 1945. IWO JIMA

USNS SGT
WILLIAM R.
BUTTON (T-AK
3012)

CPL WILLIAM ROBERT
BUTTON

For extraordinary heroism and conspicuous gallantry and intrepidity in actual conflict with the enemy near GRANDE RIVIERE Republic of Haiti, on the night of October 31st-November 1st, 1919. HAITI

USNS GYSGT
FRED W.
STOCKHAM
(T-AK 3017)

GYSGT FRED W.
STOCKHAM

For conspicuous gallantry and intrepidity above and beyond the call of duty in action with the enemy in Bois-de-Belleau, France, on the night of June 13-14, 1918. FRANCE

USNS SGT
WILLIAM W.
SEAY
(T-AKR 302)

SERGEANT WILLIAM W.
SEAY (USA)

For conspicuous gallantry and intrepidity in action at the risk of his life as a driver with the 62d Transportation Company at Ap Nhi, Republic of Vietnam, 25 August 1968. Ambushed while on a resupply mission, his heroism and gallantry in action while repelling the enemy assault cost him his life. VIETNAM

USNS PILILAAU
(T-AKR 304)

PFC HERBERT K.
PILILAAU (USA)

For conspicuous gallantry and outstanding courage above and beyond the call of duty in action against the enemy on Heartbreak Ridge near Pia-ri, Korea while serving with Company C, 23rd Infantry Regiment, 2nd Infantry Division on 17 September 1951. KOREA. the 2nd Infantry Division attacked and captured a ridge in east central Korea. Their next objective was a hill mass just to the north, near Pia-ri, which would come to be known as Heartbreak Ridge.

USNS 1ST LT
GEORGE K.
SISLER
(T-AKR 311)

1STLT GEORGE K.
SISLER (USA)

For conspicuous gallantry and intrepidity at the risk of his life and above and beyond the call of duty. 1st Lt. Sisler was the platoon leader/adviser to a Special United States/Vietnam exploitation force. Republic of Vietnam. 7 February 1967. VIETNAM

USNS SPEC 4
LARRY G. DAHL
(T-AKR 312)

SPEC FOUR LARRY G.
DAHL (USA)

For conspicuous gallantry and intrepidity in action at the risk of his life above and beyond the call of duty while serving as a machine gunner on a gun truck near An Khe, Binh Dinh Province, Republic of Vietnam, 23 February, 1971. VIETNAM

USNS LEWIS
AND CLARK
(T-AKE 1)

Commissioned by Thomas Jefferson, Captain Meriwether Louis and 2d Lieutenant William Clark, the Corps of Discovery Expedition was the first American expedition to cross the western portion of the United States. Their perilous journey lasted from 1804 to 1806 and explored and mapped the newly acquired Louisiana Purchase, found a practical route to the Pacific, and established a lasting American presence in the west.

USNS SACAGAWEA
(T-AKE 2)

Sacagawea was a Lemhi Shoshone woman who accompanied the Lewis and Clark Expedition. Acting as an interpreter and guide in their exploration of the Western United States, she traveled thousands of miles from North Dakota to the Pacific Ocean between 1804 and 1806. In 2001 Sacagawea was given the title of Honorary Sergeant in the U.S. Army by the President of the United States.

USNS
MONTFORD
POINT (ESD 1)

From 1942-1949, approximately 20,000 African-American men enlisted in the Marine Corps and completed segregated boot camp at Montford Point Camp, Jacksonville, NC. Many of these Marines served with distinction during a number of World War II's bloodiest struggles, making the ultimate sacrifice, while others continued their service into Korea and Vietnam.

USNS JOHN
GLENN (ESD 2)

COL. JOHN H. GLENN,
JR.

John Glenn was commissioned in the Marine Corps in 1943 and flew 59 combat missions in WWII and 63 in Korea. As a test pilot, he set the transcontinental record in 1957. Selected for NASA's Mercury Program, he was the first American to orbit the earth in 1962. In 1974 he was elected to the U.S. Senate from Ohio, retiring from the Senate in 1999. Glenn returned to space in 1998 on the Space Shuttle Discovery mission, and is the oldest person to have flown in space.

HISTORICAL MARITIME PREPOSITIONING SHIP NAMESAKES

MV CPL LOUIS J.
HAUGE, JR.
(T-AK 3000)

CPL Louis J. Hauge Jr.
USMC

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as Leader of a Machine-Gun Squad serving with Company C, First Battalion, First Marines, First Marine Division, in action against a strongly fortified Japanese hill position on Okinawa on 14 May 1945. OKINAWA

MV PVT.
FRANKLIN
J. PHILLIPS
(T-AK 3004)

PVT Franklin J. Phillips,
USMC

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty Private Phillips served in the presence of the enemy at the Battle of Peking during the Boxer Rebellion in China from 20 June to 16 July 1900. CHINA

MV PFC.
WILLIAM B.
BAUGH
(T-AK 3001)

PFC William B. Baugh,
USMC

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty while serving as a member of an Anti-Tank Assault Squad attached to Company G, Third Battalion, First Marines, First Marine Division (Reinforced), during a nighttime enemy attack against a motorized column en route from Koto-Ri to Hagaru-ri, Korea, on November 29, 1950. KOREA

USNS SGT
MATEJ KOCAK
(T-AK 3005)

SGT MATEJ KOCAK

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty while serving with the Sixty-sixth Company, Fifth Regiment, Second Division, in action in the Viller-Cottertes section, south of Soissons, France, 18 July 1918. FRANCE

MV PFC JAMES
ANDERSON,
JR. (T-AK-3002)

PFC James Anderson Jr.,
USMC

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as a rifleman, Second Platoon, Company F, Second Battalion, Third Marines, Third Marine Division, in Vietnam on 28 February 1967. VIETNAM

USNS PFC
EUGENE A.
OBREGON
(T-AK 3006)

PFC EUGENE A.
OBREGON

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty while serving with Company G, Third Bn, Fifth Marines, First MarDiv (Reinforced), in action against enemy aggressor forces at Seoul, Korea, 26 September 1950. KOREA

MV 1ST LT. ALEX
BONNYMAN
(T-AK 3003)

1st Lt Alexander Bonnyman Jr. USMC

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as Executive Officer of the 2d Battalion Shore Party, 8th Marines, 2d Marine Division, during the assault against enemy Japanese-held Tarawa in the Gilbert Islands, 20–22 November 1943. TARAWA

USNS MAJ
STEPHEN W.
PLESS
(T-AK 3007)

MAJ STEPHEN W. PLESS

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty while serving as a helicopter gunship pilot attached to Marine Observation Squadron Six in action against enemy forces near Quang Ngai, Republic of Vietnam, on 19 August 1967.

USNS 1ST LT
HARRY L.
MARTIN
(T-AK 3015)

1STLT HARRY L. MARTIN

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty as Platoon Leader attached to Company C, Fifth Pioneer Battalion, Fifth Marine Division, in action against enemy Japanese forces on Iwo Jima, Volcano Islands, 26 March 1945. IWO JIMA

USNS LCPL ROY
M. WHEAT
(T-AK 3016)

LCPL ROY M. WHEAT

For conspicuous gallantry and intrepidity at the risk of his life above and beyond the call of duty, Corporal Wheat was assigned the mission of providing security for a Navy construction battalion crane and crew operating along Liberty Road in the vicinity of the Dien Ban District, Quang Nam Province. VIETNAM

Recommended changes to this
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