



NAVY SMALL ARMS



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Navy Small Arms Program Overview

- Full life cycle support for the Navy's small arms
 - Engineering
 - Acquisition
 - Maintenance
 - Weapons distribution
 - Weapons Tracking
 - Acquisition and acquisition support are provided for all small arms, mounts and related equipment
 - **Majority of acquisitions are from Army or direct from OEM**
 - **Occasional modifications to in-service weapons/mounts**
 - **1,223 worldwide activities**
 - **Over 422,000 weapons**

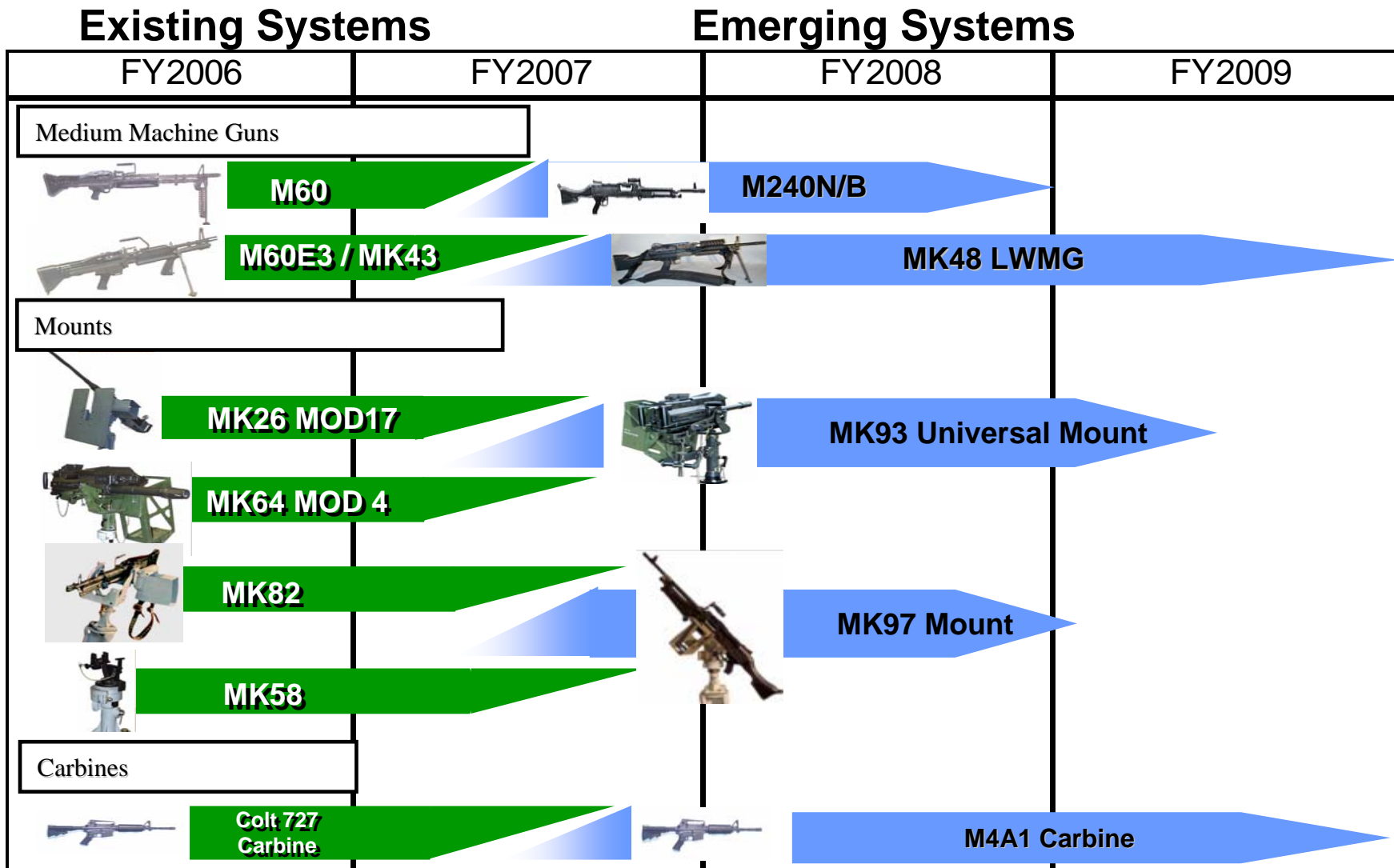


Navy Small Arms Program

Road Map



Small Arms Modernization Way Ahead














Small Arms Modernization Way Ahead (cont.)

Existing Systems

Emerging Systems

FY2006	FY2007	FY2008	FY2009
Rifles			
 M16A1HB	 M16A3/5		
 M14			
40MM Grenade Launcher			
 M79	 M203		
Surface Ship Machine Gun			
 MK19 GMG	 Twin M2HB MG		
 MK44 Mini Gun	 Twin M240 MG		



What can industry do for Navy Small Arms?

•Navy Afloat

- Problem - Harsh sea environment corrodes weapons
- Need – Improved maritime coatings or materials

- Problem – Weapons and ammunition are stowed below deck and must be transported top side using ladders, hatches, etc.
- Need – Lighter, smaller, more compact weapon and ammunition

- Problem - Weapon round counts are inaccurate
- Need – Automatic round counters

•Navy Shore Stations

- Problem – Increased training requirements for crew served weapons
- Need – Reduced range training ammunition requirements for M240, M2HB, MK19 by using virtual simulators, etc.

- Problem – Increased security at check points at base entrances and piers.
- Need – Ability to choose between non-lethal or lethal force, rapid transition from less than lethal to lethal

•Naval Air

- Problem – Overheating barrels on XM218 / GAU16 Light Weight .50 cal MG barrels
- Need – Barrels that can be fired maximizing the number of rounds on target per aircraft pass



BACKUP



Small Arms

7.62mm Machine Gun Modernization

- Replace the obsolete M60 Family of Machine Guns (MG)
 - \$32.4M FY05 -06 supplemental funds used to procure > 3000 each M240 MG as replacement for the M60 MG
 - Includes mounts, initial issue kits, and spare parts
 - Replacement of M60s with M240B/N was accomplished on a priority basis (CFFC determined priorities).
 - Training Commands
 - Units in direct support of GWOT
 - Deploying Battle Groups
 - Shore stations
 - Remaining Fleet units
 - MK43 and remaining M60E3 Lightweight M60s will be replaced with the MK48 LWMG during FY09. 70% commonality of parts with M240.





Small Arms Mount Modernization

- Replace the MK26 Mod 17 and the MK64 Mod 4 with the less expensive and more robust MK93 universal mount
 - 2000+ MK93 mounts on order. Delivery rate approximately 75 mo
 - Capable of mounting both the M2HB .50 cal and the MK19 40mm Grenade Machine Gun
 - With an adaptor, can also mount M240 7.62mm Medium Machine Gun (this option is too expensive under normal circumstance)
 - Transition to the MK93 mount should be complete by 4Q FY08
- Replace the MK58 and the MK82 M60 Machine Gun mounts with the MK97 M240 Machine Gun mounts
 - MK58 and MK82 specific to the M60 family of Machine Guns
 - MK97 is specifically designed to mount the M240 family of Machine Guns
 - 1200+ MK97 mounts on order. Sufficient mounts on hand/on order to meet all requirements.
 - Transition to the MK97 mount should be complete by 4Q FY08





Small Arms Rifle Modernization

- Replace the M14 7.62mm As the Fleet's Primary Rifle
 - USN is only user of the M14 rifle
 - Too heavy for use in VBSS and MIO operations
 - Too long for use in VBSS and MIO operations
 - Shore establishment and expeditionary units have migrated from M14
 - Fleet desires M16A3 as replacement for M14 rifle
 - Few M14s to be retained for use in line throwing
 - Currently 4,354 M14 rifles in use aboard Navy vessels
- Replacement of Fleet M14 rifles delayed by loss of acquisition funding and increased requirements for the M16A3. Expect transition to be completed by the end of FY07. 6000 M16A3 rifles to be put into or returned to service during FY07 through repair or conversion actions.





Small Arms

40mm Grenade Launcher Modernization

- Replace the M79 40mm Grenade Launcher with the M203
 - M79 is obsolete
 - M203 is designed to fit onto the M16 family of weapons. Results in increased flexibility
 - Relatively few (<900) M79s remain in service. Too expensive to maintain
- FY06 funding being used to procure 750 each M203s. An additional 500 units will be procured with FY07 funding. Replacement of the M79 should be complete by the end of FY07. (A few M79s will remain in service for use as flare guns during tactical training exercises).





Small Arms 5.56mm Carbine Conversion

- Convert the Model 727 carbine to M4A1 configuration
 - USN is only user of the Model 727 carbine
 - Model 727 carbine is out of production
 - Model 727 carbine is not capable of mounting sighting devices
 - \$3.0M of the FY05 O&MN supplemental funding is being used to convert 4000 each Model 727 to the M4A1 configuration (parts procurement and SEAPORT contract).
 - Conversion will take place at a rate of approximately 2000 per year FY07-FY08.
 - Model 727 will be completely replaced by the end of FY08
 - CFFC and OPNAV N864G will determine priority of issue
 - Training Commands
 - Units in direct support of GWOT
 - Deploying Battle Groups
 - Shore stations
 - Remaining Fleet units





Small Arms

Surface Ship Upgrade/MK44 Replacement

- Replace the MK44 mini-gun system with Twin M240 MG.
 - MK44 Mini Gun
 - System provided as a rapid response measure after USS Cole incident
 - Fires 7.62mm at 3,000 rounds per minute
 - Electrically driven w/six barrels
 - 80 systems currently in use by Fleet
 - No spare parts support in place
 - Difficult and expensive to maintain aboard ship
 - Requires ship alt to become a permanent emplacement
 - Acquisition cost \$72,300 per system (2 per ship = \$144,600)
 - Twin M240 MG (Sufficient FY06 funding to procure 160 ship sets)
 - Fires 7.62mm at 1500 to 1900 rounds per minute (combined)
 - Can continue to fire if one gun fails
 - Any of the ship's M240s can be used to replace failed gun
 - Acquisition cost \$22,652 per system (2 per ship = \$45,304)
 - Procurement of 300 twin M240 w/mount will cost <\$7.0M (150 ship sets)
 - Twin M240 MG will be provided in lieu of the MK44 – More efficient use of funding
 - Transition will be complete by the end of CY07
 - CFFC/SURFOR will establish priorities



Small Arms

Surface Ship Upgrade/MK19 Replacement



- Replace the MK19 40mm Grenade Machine Gun with Twin M2HB .50 cal MGs.
 - MK19 GMG
 - System provided as a rapid response measure after USS Cole incident
 - Fires 40mm grenade
 - Very ineffective when being fired from a moving platform (ship) or at a moving platform (small high speed boat)
 - Twin M2HB MGs originally procured as part of Task Force Hip Pocket
 - Fires .50 cal round at 1000 rounds per minute (combined)
 - Can continue to fire if one gun fails
 - Any of the ship's M2HBs can be used to replace failed gun
 - Transition will be complete by the end of CY08
 - CFFC/SURFOR will establish priorities

