

**ARMY NATIONAL GUARD
FY06 UFR'S**

15 January 2005

SUBJECT: Small Arms, M4 Carbine

FY06 UFR: \$22.3M

APPN: OPA

AREA OF INTEREST: MODERNIZATION

DESCRIPTION: The M4 Carbine is an M-16 based 5.56mm lightweight, gas operated, magazine fed, selective fire, rifle. Equipped with a shorter barrel, collapsible stock and accessory rails it provides soldiers operating in close quarters with improved handling and the capability to rapidly and accurately engage targets at extended range, day or night.

ISSUE JUSTIFICATION: One of the ARNG central readiness requirements is individual weapons modernization. The ARNG still has 34,951 obsolete M16A1's in its inventory. Obtaining ammunition for these rifles has become increasingly difficult, particularly for deployed units. The M16A2 and M16A4 are also being fielded to replace the first generation rifle and use the same heavier ammunition as the M4 Carbine. The M4 is issued to units and personnel with a requirement for an effective but compact, highly portable/slingable "hands free" weapon. It is ideally suited for use in close quarters and/or by soldiers who operate from vehicles with limited stowage space. The M4 can mount the optics and lighting components of the Modular Weapons System (MWS) giving it significant additional capabilities. It has become the weapon of choice for the Global War on Terror and homeland security. Any M4 Carbines purchased for priority units already modernized with M16A2/A4's will cascade those weapons to replace the much older A1's in other ARNG units. Though the XM-8 Modular Assault Weapon System, if procured, is expected to cost about the same as the M-4, fielding to the Active Army is unlikely to begin before FY-08.

PROGRAM STATUS: The current ARNG requirement for M4 Carbines is 60,943 rifles at a cost of \$1k each. On hand are 15,975 with ARNG fielding suspended IOT push the entire weapons production to units in or deploying to Iraq. 22,648 Carbine's are programmed (Modularity) for the ARNG, leaving a shortfall of 22,320 weapons. Excess production capacity is available after FY-05 and approximately 1000 weapons per month could be delivered on a new contract.

IMPACT OF FUNDING THE CAPABILITY: Funding this program will allow the Army National Guard to deploy and operate with maximum effectiveness on all fronts of the Global war on Terror. It contributes to the soldiers ability to defend him/herself and, with the MWS components, significantly increases the soldiers ability to rapidly engage targets in all environments. It is essential that the M16A1's be replaced as soon as possible. The M16A2 and A4 fieldings are funded, but alone will not displace all the A1's. Failure to fund the M4 fielding will increase risk to the soldiers, increase costs of pre-deployment cross-leveling and will degrade the ARNG's ability to train for and execute its federal and state missions.

(included for internal ARNG coordination/use only)

SUBJECT: Small Arms, M4 Carbine

APPN: OPA

APE:

MDEP:

MDEP TITLE:

DAMO-ZR 1-N List Priority Number: None

Division Priority:

Functional POC: MAJ Paul Ebhardt **Div:** NGB-ARQ-E **Tel:** 703-607-7849

Approval Authority: (pending) COL Moore / NGB-ARQ / 703-607-7804

	FY05-09	Cost (\$K)
Requirement	60,943	60,943
On-Hand	15,975	15,975
Programmed	22,648	22,648
Un-funded	22,320	22,320
Total UFR		22,320

ANALYSIS:

***Note:** Changes in requirements and unit costs since Dec 04 require this information paper to be updated. Analysis and update will occur in early March 05.

**ARMY NATIONAL GUARD
FY06 UFR'S**

15 January 2005

SUBJECT: Small Arms, M240B Machine Gun
FY06 UFR: \$16.2M
APPN: OPA
AREA OF INTEREST: MODERNIZATION

DESCRIPTION: The M240B 7.62mm Machine Gun is a very reliable, fully-automatic, gas-operated, belt-fed, crew-served weapon. The M240 family of machine guns replaces the 40 year old M-60 design. The M240B is the US Infantry version, equipped with a folding bi-pod, pintle mount, forestock and accessory rails to mount optics and target illuminators. The pintle mount allows tri-pod and vehicle mounting. The M240C coaxial version is used in all US armored vehicles. The M240D/H spade grip version is being fielded to Army utility and cargo helicopter units. The M240G is in use by the US Marines. At over 50,000 MRBF (mean rounds between failure) the M240 is widely accepted as the most reliable machine gun in the world. The M240B provides the accurate and effective sustained rate of fire required to suppress and destroy enemy soft targets.

ISSUE JUSTIFICATION: One of the ARNG critical readiness requirements is small arms and crew-served weapons modernization. The ARNG still has in it's inventory 3,753 M-60's which are no longer supportable in the combat theaters of the GWOT. The M240B is issued to units requiring the capability to deliver high rates of suppressive fire. It has become the machine gun of choice for the Global War on Terror.

PROGRAM STATUS: The RDD currently validates an ARNG requirement for 4,163 M240B's at a cost of \$9k each. On hand are 1,964 M240B's, almost all of which are deployed. Future fielding to fill the UFR of 2,199 weapons has been suspended IOT push the entire weapons production to the combat theaters and to Active Army Modularity requirements. Mobilized ARNG BCT's have received approximately 216 additional M240B machine guns prior to deployment. Funded procurement for the ARNG is limited to 400 M240B's, purchased with FY-04 NAREA, that should be delivered in 05. The remaining UFR is for 1799 M240B's and may increase as ARNG modularity is documented. The only alternative weapon system is the M-60E4/Mk43 conversion of the existing M-60, in limited use by the Marines and USAF. This cost effective (~\$3k) retrofit of the 40 year old M-60 design incorporates the key features and improvements of a contemporary M240 at 1/3 the cost, but it has not been adopted by the US Army.

IMPACT OF FUNDING THE CAPABILITY: Funding the M240B will give National Guard Soldiers the same capability as Active Army Forces to deploy and operate with maximum effectiveness on all fronts of the Global war on Terror. It greatly contributes to their ability to rapidly defend themselves with high volume, suppressive fire in adverse conditions. It is essential that the M-60's be replaced as soon as possible. Failure to fund the M240B will increase soldier risk and the costs of pre-deployment cross-leveling, which also degrades the ARNG's ability to train for and execute both its federal and state missions.

(included for internal ARNG coordination/use only)

SUBJECT: Small Arms, M240B Machine Gun

LIN: R92841

APPN: OPA

APE:

MDEP:

MDEP TITLE:

DAMO-ZR 1-N List Priority Number: None

Division Priority:

Functional POC: MAJ Paul Ebhardt **Div:** NGB-ARQQ-E **Tel:** 703-607-7849

Approval Authority: (pending) COL Moore / NGB-ARQ / 703-607-7804

	FY05-09	Cost (\$M)
Requirement	4,163	37.5
On-Hand	1,964	17.7
Funded Program Distribution (NGREA)	400	3.6
Un-funded	1,799	16.2
Total UFR	1799	16.2

ANALYSIS:

***Note:** Changes in requirements and unit costs since Dec 04 require this information paper to be updated. Analysis and update will occur in early March 05.

**ARMY NATIONAL GUARD
FY06 UFR'S**

15 January 2005

SUBJECT: Small Arms, M249 Squad Automatic Weapon/Light Machine Gun (SAW/LMG)

FY06 UFR: \$37.52M

APPN: OPA

AREA OF INTEREST: MODERNIZATION

DESCRIPTION: The 5.56MM M249 Squad Automatic Weapon and Light Machine Gun (SAW)/(LMG) is a fully-automatic, gas-operated, magazine or belt-fed, individual weapon. The SAW is an Infantry Weapon used in 2 roles, Automatic Rifle (AR) and Light Machine Gun (LMG). It can be fired from the shoulder, hand-held or from the integral bipod. It is equipped with rails to mount optics and target illuminators and has an optional short barrel for close-quarters operations. The M249 SAW provides the squad with the accurate, effective and sustained fire required to suppress and destroy enemy soft targets.

ISSUE JUSTIFICATION: One of the ARNG critical readiness requirements is individual weapons modernization. The ARNG still has an inventory of 11,000 M16A1's serving as substitutes for the M249 in the Automatic-Rifle role. Also, still in the ARNG inventory are 3,753 M60 Machine Guns substituting in the Light Machine Gun role. These weapons are obsolete and obtaining ammunition for the M16A1 rifle has become increasingly difficult. The M249 is issued to units requiring the capability to deliver high rates of suppressive fire. It has become the automatic rifle of choice for the Global War on Terror and homeland security.

PROGRAM STATUS: The RDD currently validates an ARNG requirement for 32,221 M249's at a cost of \$3k each. On hand are 19,714 M249's in both roles, most of which are deployed. Future fielding to fill the remaining UFR of 12,507 weapons has been suspended IOT push the entire weapons production to deploying units. ARNG BCT's deploying to OIF have received ~220 additional M249's for the mission. M249's are being substituted for M240B's in many deploying CS and CSS units. There is no alternative weapon to fill this requirement.

IMPACT OF FUNDING THE CAPABILITY: Funding the M249 SAW will give National Guard Soldiers the same capability as Active Army Forces to deploy and operate with maximum effectiveness on all fronts of the Global war on Terror. It contributes to their ability to rapidly and effectively defend themselves with high volume, suppressive fire in adverse conditions. It is essential that the M16A1's be replaced as soon as possible. The M16A2, A4 and M4 fieldings are partially funded, but alone will not displace all the A1's and M-60's. Failure to fund the M249 fielding will increase risk to the soldiers and costs of pre-deployment cross-leveling, which also degrades the ARNG's ability to train for and execute its federal and state missions.

(included for internal ARNG coordination/use only)

SUBJECT: Small Arms, M249 SAW/LMG

LIN: R97234, M39263

APPN: OPA

APE:

MDEP:

MDEP TITLE:

DAMO-ZR 1-N List Priority Number: None

Division Priority:

Functional POC: MAJ Paul Ebhardt **Div:** NGB-ARQ-E **Tel:** 703-607-7849

Approval Authority: (pending) COL Moore / NGB-ARQ / 703-607-7804

	FY05-09	Cost (\$)
Requirement	32,221	96.7M
On-Hand	19,714	59.2M
Funded Program Distribution	0	0
Un-funded	12,507	37.52M
Total UFR	12,507	37.52M

ANALYSIS:

***Note:** Changes in requirements and unit costs due to the on-going design of the Modular Force require this information paper be updated periodically. Next analysis and update will occur in early March 05.

**ARMY NATIONAL GUARD
FY06 UFR'S**

15 January 2005

SUBJECT: Small Arms, MK-19 Grenade Machine Gun

FY06 UFR: \$52.3M

APPN: OPA

AREA OF INTEREST: MODERNIZATION

DESCRIPTION: The MK-19 (Mod 3) Automatic Grenade Launcher/Machine Gun is a self-powered, air-cooled, belt-fed, blowback operated, crew-served weapon. The MK-19 replaces or augments selected M2 .50 caliber Machine Guns throughout the Army. It is also in use by the US Navy, Marines and Air Force. The MK-19 is mounted on HMMWV's, trucks and M88 Recovery Vehicles to deliver intense suppressive fire against enemy personnel and lightly armored vehicles or bunkers.

ISSUE JUSTIFICATION: One of the ARNG critical readiness requirements is small arms and crew-served weapons modernization. With the advent of Army Transformation to Units of Action (UA's) the ARNG has currently documented shortfall of 3,377 MK-19's. Operational requirements resulting from the GWOT have resulted in extensive unit-to-unit transfers of MK-19's to deploying units. M2 .50 caliber machine guns and operational barrels are also in short supply. As the primary suppressive weapon for CS and CSS any shortage of these weapons is critical.

PROGRAM STATUS: The RDD currently validates an ARNG requirement for 9,159 MK-19's at a cost of \$15.5k each. On hand are 5,782 MK-19's, the majority of which are deployed. Fielding to fill the previous ARNG requirement was completed in 2003 and the new increased requirement has not yet been programmed. The MK-19 UFR is 3,377 and may increase as ARNG modularity above UA level is documented. The only alternative weapon systems are the XM-307/312 Advanced Crew Served (Air-burst) Weapons which are still under development with no projected fielding date.

IMPACT OF FUNDING THE CAPABILITY: Funding the MK-19 will give National Guard Soldiers the same capability as Active Army Forces to deploy and operate with maximum effectiveness on all fronts of the Global war on Terror. It greatly contributes to their ability to rapidly defend themselves with high volume, suppressive fire in adverse conditions. Failure to fund the MK-19 will increase soldier risk and the costs of pre-deployment cross-leveling, which also degrades the ARNG's ability to train for and execute both its federal and state missions.

(included for internal ARNG coordination/use only)

SUBJECT: Small Arms, MK-19 Machine Gun

LIN: R92362

APPN: OPA

APE:

MDEP:

MDEP TITLE:

DAMO-ZR 1-N List Priority Number: None

Division Priority:

Functional POC: MAJ Paul Ebhardt **Div:** NGB-ARQ-E **Tel:** 703-607-7849

Approval Authority: (pending) COL Moore / NGB-ARQ / 703-607-7804

	FY05-09	Cost (\$M)
Requirement	9,159	141.9
On-Hand	5,782	89.6
Funded Program Distribution (NGREA)	0	0
Un-funded	3,377	52.3
Total UFR	3,377	52.3

ANALYSIS:

***Note:** Changes in requirements and unit costs due to the on-going design of the Modular Force require this information paper be updated periodically. Next analysis and update will occur in early March 05.