



MK46 MOD0 (LMG)



2001 JOINT SERVICES
SMALL ARMS SYMPOSIUM



Mr. Troy Smith



Report Documentation Page

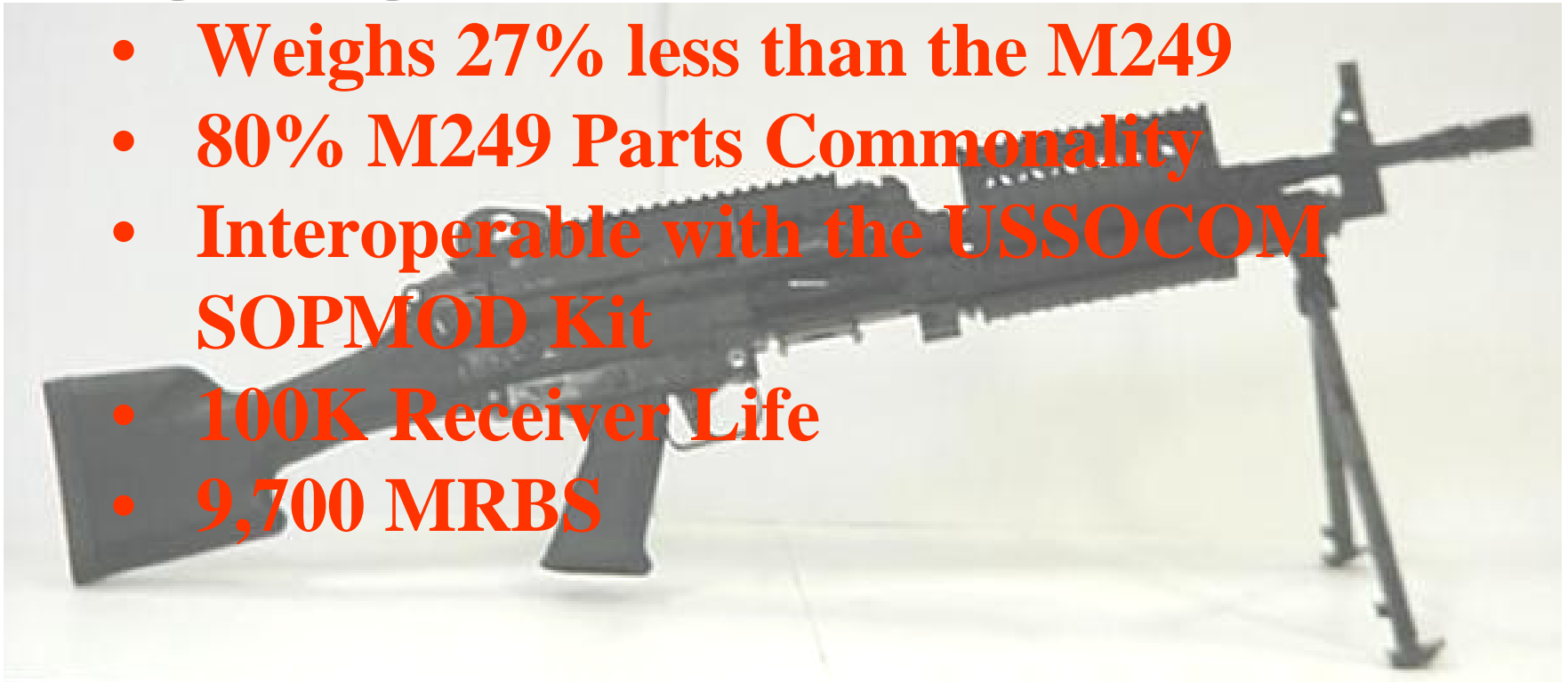
Report Date 13Aug2001	Report Type N/A	Dates Covered (from... to) -
Title and Subtitle MK-46 MOD0 (LMG)	Contract Number	
	Grant Number	
	Program Element Number	
Author(s) Smith, Troy	Project Number	
	Task Number	
	Work Unit Number	
Performing Organization Name(s) and Address(es) NAVSEA Crane	Performing Organization Report Number	
Sponsoring/Monitoring Agency Name(s) and Address(es) NDIA (National Defense Industrial Association) 211 Wilson Blvd, STE. 400 Arlington, VA 22201-3061	Sponsor/Monitor's Acronym(s)	
	Sponsor/Monitor's Report Number(s)	
Distribution/Availability Statement Approved for public release, distribution unlimited		
Supplementary Notes Proceedings from the 2001 Joint Services Small Arms Symposium, Exhibition & Firing Demonstration 13-16 August 2001 Sponsored by NDIA, The original document contains color images.		
Abstract		
Subject Terms		
Report Classification unclassified	Classification of this page unclassified	
Classification of Abstract unclassified	Limitation of Abstract UU	
Number of Pages 15		



What is a MK46 MOD0 LMG?

A Lightweight Variant of the M249 SAW

- Weighs 27% less than the M249
- 80% M249 Parts Commonality
- Interoperable with the USSOCOM SOPMOD Kit
- 100K Receiver Life
- 9,700 MRBS





Program Tenants



- **Obtain the “Best Value” Lightweight Machine Gun for USSOCOM in an Acceptable Timeframe**
- **Gain Up-Front Industry Involvement**
- **Maximize User Input in Source Selection Process**
- **Balance User Preference with Program Execution and Weapon Technical Considerations**



MK46 MOD0 Program



“A USSOCOM Small Arms Success Story”

Roadmap to Success

- Streamlined Acquisition
- Maximized IPT Process (Government, Users, Industry)
- “Fly before You Buy” Test Strategy
- Weapon Performance

Follow-On Acquisition

- 7.62 LWMG Program



Streamlined Acquisition



FY00 New Start

Sponsored by USSOCOM (PEO-SP)

ORD required 425 LMGs

Received FY00 FCT Funds

Issued Solicitation on 12 October 99

Product Sample LMGs received on 15 Nov 99

**Contract (N00164-00-D-0023) awarded to FNMI
on 8 June 00**

FUE reached on 30 March 01

FOC reached on 10 August 01



Streamlined Acquisition



Less than 1 year from MS 0/II to MS III

Integrated Efforts with FCT Program

**Offset Program Cost and Maximized Use of FCT
Funds with Highly Successful Result**

**Program Nominated by USSOCOM for David
Packard “Excellence in Acquisition” Award**



Acquisition Strategy



- **Market Research**
- **Competition**
- **COTS with “Draft” Performance Specifications**
- **Best Value**
- **Product Samples**
- **Integrated Source Selection**
- **IDIQ Contract**
- **Use of First Article Units**



Maximized IPT Process



Issued Draft Performance Specification to gain Early Industry Involvement and Reduce Risk

Provided Excess 5.56mm Ammunition at No Cost to Interested Vendors to conduct Technical Testing prior to Solicitation Issue

Established “Go/No Go” Criteria to allow Early Elimination of Non-Compliant Product Samples



Maximized IPT Process

Source Selection combined Technical Test and Operational Assessment of Product Samples

Served as “Fly-Off” between Competing Contractors
Operational Assessment Most Heavily Weighted Factor in SSP

Negotiated Weapon Improvements following OA but prior to Final Source Selection Decision



Maximized IPT Process



**Implemented Single Organizational Level
Maintenance Strategy**

**Integrated Maintenance Training with the NSW
Enhanced O-Level Curriculum**



“Fly before You Buy” Test Strategy Weapon Performance

Objective/Threshold

Actual

Weight (lbs)	9/13	12.7
Corrosion Resistance (hours)	>96/96	96
Interoperability w/SOPMOD(rails)	4/3	4
Length (in)	40/44	36
Firing Rate (rpm)	750/500	754
Service Life (rounds)	100K/50K	>100K
Barrel Life	15K/10K	17.4K
Reliability (MRBS)	2200/1800	9722



MK46 MOD0 Program

“A USSOCOM Small Arms Success Story”

The MK46 MOD0 met or exceeded all ORD requirements

ORD has been satisfied with Procurement and Fielding of 425 Weapons

Future requirements were considered

Indefinite Delivery Indefinite Quantity Contract (IDIQ)

Firm-Fixed Price/5 Year Option Availability (June FY05)

IDIQ Min = 6 LMGs (First Article Units)

IDIQ Max = 2,500 LMGs

Contract provides for Full Logistics Support Data as well as Spare Parts



MK46 MOD0 Program

“A USSOCOM Small Arms Success Story”

“The Bottom Line”



USSOCOM met the **Warfighter's** need with a Superior
Weapon at Significant Cost and Schedule Savings



Follow-On Acquisition 7.62mm LWMG



The current 7.62mm Machine Gun within the NSW Inventory (M60/MK43) has proven to be less than reliable, NSW users have lost confidence in the weapon and the weapon is becoming unsupportable.

Therefore, a MNS/ORD was approved on 21 March 2001 for a new Lightweight 7.62mm Machine Gun (LWMG).

The 7.62mm LWMG program has been patterned after the MK46 Program.

ORD requires 492 weapons.



Follow-On Acquisition 7.62mm LWMG



Issued “Draft” Performance Specification	May 01
Issue Procurement Solicitation	Oct 01
Receive 3 each Product Samples/Tech Proposals	March 02
Conduct Initial Technical Testing	March 02
Obtain Safety Release	May 02
Perform Operational Assessment	June 02
Award Contract for IDIQ Minimum Qty	September 02

Interested?: **Contact: Mr. John Pfender, (812) 854-5198,**
E-Mail: pfender_j@crane.navy.mil