



S.C.A.R.

S.O.F. COMBAT ASSAULT RIFLE





OPERATOR ENVISIONED, TESTED, CHOSEN



18 May 2006





SCAR



Operator Envisioned, Tested, and Chosen



SCAR Gives The SOF Operator A Weapon That Is Specifically Designed For SOF By SOF





Briefing Outline



- Why SCAR?
- What is SCAR?
- SCAR Way Ahead
- Review of Test Data
- Program Summary









Why SCAR?



SCAR Program Fills a Need That Years Of SOF Operator Experience Tells Us Still Exists



A Multipurpose Weapon of Choice With Choices for Today's And Tomorrow's Battlefields



SCAR Program Will Field The Best Possible Weapon System To The SOF Operator



USSOCOM *Is* Leading The Next Evolutionary Step In Small Arms Development...At A Revolutionary Pace





SCAR Weapons Replacement













MK18

M4A1

MK12

MK11

M14/EBR









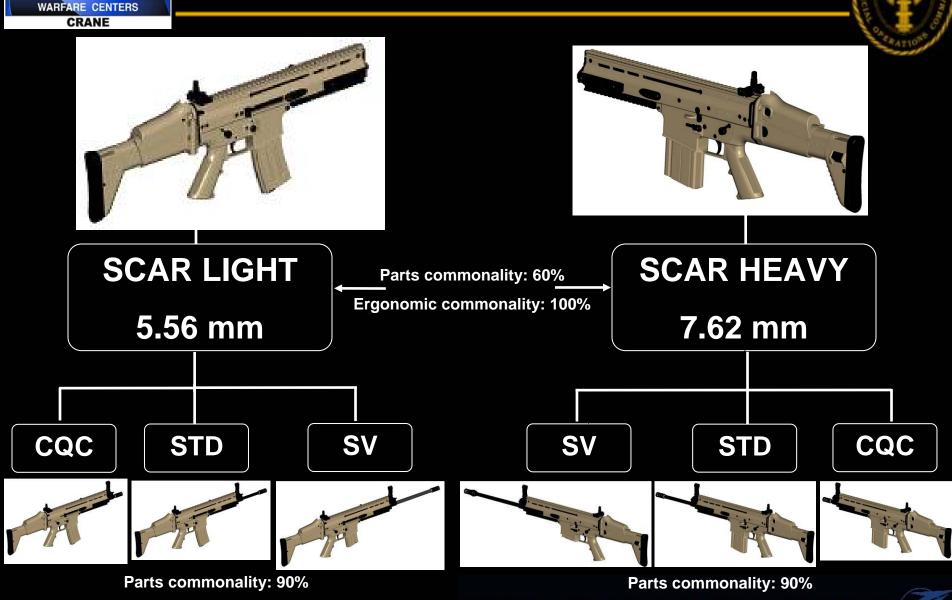
SCAR LIGHT 5.56 mm

SCAR HEAVY 7.62 mm





What Is SCAR?





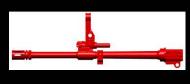
SCAR Future Capabilities





0.87" In Length & 0.1 lbs From A Common Upper Receiver

Choose Caliber &
Barrel Type





Match Trigger ← Module to Caliber





Match Bolt To



EGLM & FCU



- EGLM Provided With 40mm Weapon Module, Fire Control Unit Increment I (Mechanical With Integrated Laser/MRD Sight) And Stand Alone Stock
 - Weapon: Left Or Right Hand Operation, Locked Breach, Provides Capability
 - To Fire All 40mm Rounds And Future Medium Velocity Ammunition
 - FCU Increment I: Mechanical With Integrated Laser/MRD Sight
 - → FCU Increment II: Laser Range Finding/Pointer To 600 Meters With Ballistic Solution, Quick On/Off With No Effect On Host Weapon Zero



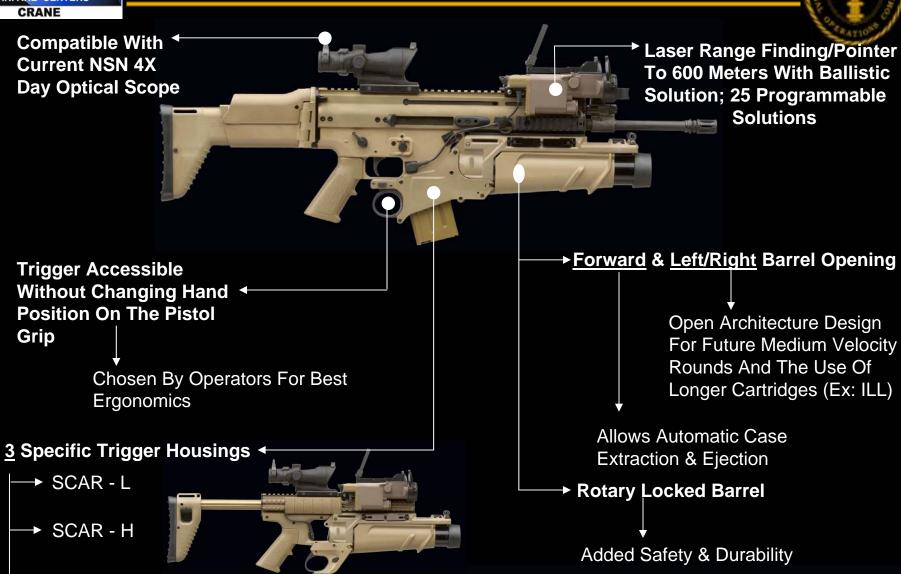








EGLM & Fire Control Unit



→ Stand Alone



Program Highlights









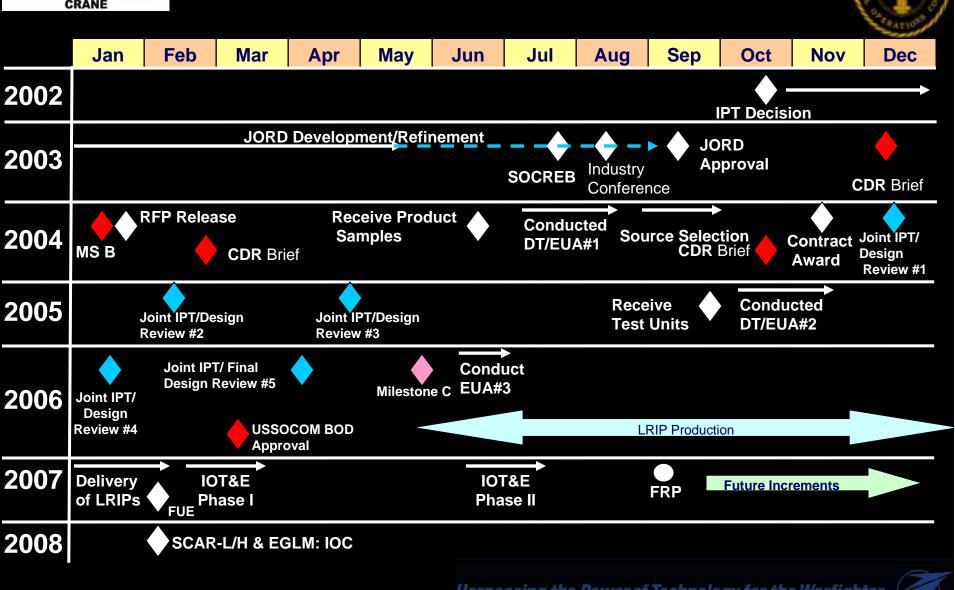
SCAR - Heavy (7.62mm)

- Conducted In A Full And Open Competition
- Continuous Operator Involvement
- Less Than 10 Months From Solicitation Issue To Contract Award
- Contract Awarded 5 November 2004 To FN Herstal
- Accelerated Development Of SCAR-H And EGLM to Coincide with SCAR-L
- Completed Phase 2 Testing in November 05 with 16 Operators
- Milestone C Authorization Pending To Support LRIPs
- USSOCOM Investment of Approximately 3.0M To Date
- True Teaming Triad Between Operators, Government And FN





Program Development/Way Ahead







SCAR/EGLM



Developmental Test Overview





SCAR-L Technical Data









SCAR-L 5.56mm CQC with EGLM mounted



SCAR-L 5.56mm CQC

FEATURES	CQC	STD	SV
Operating Principle	Gas Operated S	hort Stroke Pist	on, Rotating Bolt
Firing Modes	Single Shot, Full Auto		
Feed System	30 rds, M16 Magazine Type		
Rate of Fire	550-600 Rounds Per Minute		
Accuracy	0.5 to 0.7 MOA>Ammo @300m		@300m
Weight Without Magazine With Iron Sights	6.73 lb	6.97 lb	7.56 lb
Maximum Overall Length	29.78 in	33.56 in	38.00 in
Minimum Overall Length	28.25 in	32.10 in	36.38 in
Maximum Overall Length, Stock Folded	20.88 in	24.63 in	29.00 in
Barrel Length	9.96 in	13.82 in	18.00 in





SCAR-H Technical Data







SCAR-H 7.62mm STD

SCAR-H 7.62mm CQC

FEATURES	CQC	STD	SV
Operating Principle	Gas Operated Short Stroke Piston, Rotating Bolt		
Firing Modes	Single Shot, Full Auto		
Feed System	20 rds, FAL Box Magazine Type		
Rate of Fire	550-600 Rounds Per Minute		
Accuracy	0.5 to 0.7MOA > Ammo at 300 meters		
Weight Without Magazine With Iron Sights	6.80 lb	7.16 lb	7.64 lb
Maximum Overall Length	30.50 in	36.39 in	41.24 in
Minimum Overall Length	29.00 in	34.88 in	39.74 in
Maximum Overall Length, Stock Folded	21.63 in	27.50 in	31.74 in
Barrel Length	9.96 in	15.75 in	18 to 20 in





SCAR DT KPP Data Summary



KPP's	THRESHOLD AND OBJECTIVE	EX16 SCAR L (S)	EX17 SCAR H (S)
Adapt - Barrel Change	Barrel Change By Operator W/O Headspace Adjustments Within 20min (T), Within 5min (O)	MEETS (T) REQT	MEETS (T) REQT
Reliability	SCAR L/H Using M855&M80 Ball, Shall Have A Mean Round Between Stoppage (MRBS) Of 2,000rds (T), 8,000rds (O)	MEETS (T) REQT	MEETS (T) REQT
Con't	Shall Have A Mean Round Between Failure (MRBF) Of 15,000rds (T), 35,000rds (O)	MEETS (T) REQT	MEETS (T) REQT
Con't	Functional System Service Life, W/O Overhaul of 15,000rds (T), 90,000rds (O)/Barrel Life of 15,000rds (T), 35,000rds (O)	MEETS (T) REQT	MEETS (T) REQT
Acceptance Accuracy	Baseline Ammunition Extreme Spread Plus 1 MOA @ 300yds (T), 0.25MOA @ 300yds (O)	MEETS (T) REQT	MEETS (T) REQT





SCAR DT APP Data Summary



APP's	THRESHOLD AND OBJECTIVE	EX16 5.56mm	EX17 7.62mm
Firing Rate	The SCAR shall have a rate of fire optimizing the reliable function of the weapon system with and without sound suppression (T).	MEETS (T) REQT	MEETS (T) REQT
Drain Time	SCAR L/H shall require no more than 2 sec drain time after Full submersion in, and removal from sea water after firing Mode selection (T), Zero drain time (O)	MEETS (T) REQT Standard MEETS (O) REQT cqc	MEETS (T) REQT
Size	SCAR-L shall be collapsible or foldable to lengths not greater than 29.9" folded/collapsed and 33.6" extended with standard barrel (T). SCAR H collapsible or foldable to lengths 30.3" folded/collapsible and 40.2" extended with standard barrel (T).	MEETS (T) REQT	MEETS (T) REQT
Weight	The SCAR-L without magazine, shall weigh no more than 7.25lbs unloaded (T), less than 6.6lbs unloaded (O) The SCAR-H shall weigh no more than 9 lbs (T), less than 8 lbs (O).	MEETS (T) REQT	MEETS (O) REQT
Jump Bag	SCAR L/H Shall Utilize the Current In-Service Jump Bag (T)	MEETS (T) REQT	MEETS (T) REQT





EGLM Technical Data









SCAR-L w/EGLM & FCU

EGLM On Stand Alone Stock

EGLM w/Trigger Assembly

FEATURES	EGLM
Mechanism	Slide Action, Rotary Locking- DA Trigger
Weight (w/o Sight Assembly)	3.02 lb / Launcher
Length (w/ Trigger Assembly)	16 in / 9in Barrel
Fire Control Unit (Increment II)	Laser Ranging/Pointer (600m),
	40mm Ballistic Solution
Modularity	Mounts To SCAR-L/H,
	And Stand Alone Stock
Stand Alone Stock	20.25 – 26.63 in Long / 2.74lb





EGLM DT KPP Data Summary



KPP's	THRESHOLD	EX13 EGLM
1.	Single Shot, 40mm Low Velocity (40x46mm)	MEETS REQUIREMENT
2.	Attaches To SCAR L/H & Stand Alone Stock Via Mil Std 1913 rail.	MEETS REQUIREMENT
3.	Fire Control Unit (Increment II) w/Day – Night Targeting and Ranging Capabilities	Meets Concept – Operational Issues w/ Size, Weight, Ease of Use and Overall Performance
4.	Interoperable w/U.S. 40mm Ammo And SOPMOD Equipment	MEETS REQUIREMENT
5.	Safe During Transport, Storage, And Use	MEETS REQUIREMENT
6.	Design Shall Not Limit Length Of 40mm Round	MEETS REQUIREMENT
7.	Design Shall Have A Mechanical Safety	MEETS REQUIREMENT





EGLM DT APP Data Summary



APP's	Requirement	EX13 EGLM
Size/Weight	Detached, Shall not Exceed 16in (T) Stock Assembly 3.5lb (T) 1.0lb (O) Weapon &Fire Control 6.5lb (T) 2.0 (O) Stand Alone Weight 10.0lb (T) 4.0lb (O)	MEETS (T) REQUIREMENT
Trigger	Incorporate Double Action Trigger (T)	MEETS (T) REQUIREMENT
Fire Control Unit (Increment II)	Manual Input of Range (T) Range from 40 to 600m, Day/Night (T) Range Target every 2 Seconds (O) Vertical Elevation Compensation (O)	MEETS (T) REQUIREMENT MEETS (T) REQUIREMENT MEETS (O) REQUIREMENT MEETS (O) REQUIREMENT
Accuracy	8/10 Hits to 200m (T), 6/10 Hits from 200- 300m(T) 8/10 Hits Point Target 36 by 36in @100M (T)	MEETS (T) REQUIREMENT
Reliability (Launcher)	MRBF Class 1 – 1,200rds 3 – 3,000rds 2 – 1,500rds	MEETS (T) REQUIREMENT
Service Life	5000 rd Effective Barrel Life (T) 5000 rd System Service Life (T)	MEETS (T) REQUIREMENT





Summary



- Full & Open Competition
- Designed For SOF By SOF
- Less Than 10 Months From Solicitation Issue To Contract Award
- 45 Months From Solicitation Issue to Full Rate Production
- 5 Joint IPTs/Design Reviews With SOF Operators, Combat Developers, Government And FN Personnel
- Modular Concept Supports Future Growth
- USSOCOM Investment Of Approximately 3.0M To Date





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