FCT and SOCOM Shoulder Fired Weapons

PRESENTED BY:
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SOCOM
Deputy-PM Shoulder Fired Weapons

05 May 2005 (REV 0)
MULTI-ROLE ANTI-ARMOR ANTI-PERSONNEL WEAPON SYSTEM (MAAWS)

- REUSABLE 22 POUND, 42 INCH LAUNCHER
- FULL FAMILY OF AMMUNITON
- FIELDED TO 75TH RR 1990, NAVSPECWARCOM 1997
- FIELDING TO SF COMMAND UNDERWAY

ACQUISITION SUMMARY

- USSOCOM PROGRAM
- CURRENT MDA: USSOCOM PEO-SP
- NDI SYSTEM FROM BOFORS, SWEDEN
- EVOLUTIONARY SYSTEM UPGRADES TO IMPROVE SAFETY AND CAPABILITY
- SYSTEM MANAGER AT RDECOM-ARDEC LEADS JOINT SERVICE IPT (ARMY/NAVY/SOCOM/OSD)

USER PAYOFF

AMMUNITION CAPABILITIES

- HIGH EXPLOSIVE ANTI-TANK (HEAT)
  - 700M LIGHT ARMORED VEHICLES, BRICK/CONCRETE WALLS
- HIGH EXPLOSIVE DUAL PURPOSE (HEDP)
  - 500M EARTH & TIMBER BUNKERS, SOFT STRUCTURES, WALLS
- HIGH EXPLOSIVE (HE)
  - 1000M PERSONEL IN OPEN AND DEFILADE, SOFT VEHICLES
- AREA DETERRANT MUNITION (ADM)
  - 100M CLOSE RANGE AREA PERSONNEL TARGETS
- SMOKE
  - 1000M OBSCURE AND MARK TARGETS
- ILLUMINATION
  - 1700M ILLUMINATE TARGETS

PROGRAM SCHEDULE AND FUNDING

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<th>FISCAL YEAR</th>
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M3 Reusable Rifle

CARL-GUSTAF M3
HIGH EXPLOSIVE ANTI-TANK
(HEAT 551C IM) ROUND

- ADVANCED SHAPED CHARGE WARHEAD
- ROCKET ASSISTED PROJECTILE
- SIGNIFICANT ARMOR PENETRATION (RHA)
- MIL-STD FUZING
- LONG RANGE & HIGH ACCURACY
HIGH EXPLOSIVE DUAL PURPOSE (HEDP 502 IM) ROUND

- SHAPED CHARGE WARHEAD, FRAGMENTING SHELL BODY
- OPERATOR Chooses IMPACT OR DELAY FUNCTION
- MIL-STD FUZING
- DELAY MODE
  - DEFEAT EARTH AND TIMBER BUNKERS
  - PENETRATE WALLS AND DETONATE BEHIND
- IMPACT MODE: ALUMINUM LINER FOR HEAT/PRESSURE EFFECT BEHIND LIGHT ARMOR & OTHER TARGETS
HIGH EXPLOSIVE (HE 441D IM) ROUND

- INCAPACITATE PERSONNEL & THIN SKINNED VEHICLES USING STEEL BALLS PLUS SHELL BODY FRAGMENTS
- OPERATOR CHOOSES AIRBURST OR IMPACT FUNCTION
- FIRE THROUGH WINDOWS FOR BUILDING OCCUPANTS
- MIL-STD FUZING
- FIELDING AND SHIPBOARD STORAGE WITHOUT RESTRICTIONS
AREA DETERRANT MUNITION

- CANNISTER FLECHETTE ROUND
  - OVER 1000 FLECHETTES
  - EFFECTIVE IMMEDIATELY AFTER MUZZLE EXIT
  - COMPLIMENTS HE 441 ROUND

- PRIMARY TARGET: PERSONNEL IN OPEN
**ILLUM/SMOKE ROUND UPGRADES**

**ILLUM 545C ROUND**
- MIL-STD FUZE, SELECTABLE BURST RANGE WITH ADDED IMPACT FUNCTION
- CURRENT VISIBLE CANDLE
- ONGOING FOREIGN COMPARATIVE TEST PROGRAM

**SMOKE 469C ROUND**
- MIL-STD FUZE TO REPLACE CURRENT DESIGN
- FUTURE EFFORT NOW IN PLANNING STAGES
TPT 141 TARGET PRACTICE TRACER ROUND

- LOW COST FULL CALIBER TRAINING ROUND
- IDENTICAL LAUNCH CHARACTERISTICS PROVIDE 100% TRAINING TRANSFER
- TRAINING TARGET ENGAGEMENT TO RANGE OF 300m
- TRACER COMPOSITION TO TRACK FLIGHT
## MAAWS SYSTEM STATUS

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- N/A = NOT ACCEPTABLE (IM)
- = LIMITED ACCEPTANCE
- = ACCEPTABLE

* - FCT EFFORT  ** - FUTURE FCT EFFORT
AT4 Confined Space (CS) Reduced Sensitivity (RS)

AT4-CS RS PERFORMANCE OVERVIEW

- ARMOR
- FIRE FROM ENCLOSURE
- NIGHT SIGHT RAIL
- IM FILL
- DUAL SAFE FUZE
- AIR DROP CERTIFIED

CHARACTERISTICS

- DISPOSABLE SYSTEM
- LENGTH: APPROXIMATELY 1 METER
- WARHEAD DIAMETER 84mm
- WEIGHT
  » UNIT WEIGHT 17 lbs.
- DEFEAT MECHANISM: SHAPED CHARGE WARHEAD

PROGRAM HIGHLIGHTS

- FIELDING & PRODUCTION STATUS
  » AT4-CS RS
  » AT4-CS RS CURRENTLY IN PRODUCTION FOR SOCOM & U.S. ARMY
  » AT4-CS RS FIELDING TO SOCOM UNDERWAY

SAFETY CERTIFICATION STATUS - AT4-CS RS
- ALL TEST COMPLETED SUCCESSFULLY
- APPROVE D BY SURGEON GENEAL
Operational Test AT4 CS RS