Advanced Planning Brief to Industry
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PM-Towed Artillery Systems

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PM-TAS Portfolio

CURRENT

M777A2

M111 Improved Position and Azimuth Determining System (IPADS)

LEGACY

D30

Gun Laying and Positioning System (GLPS)

M119A2 & Digitization

M198
## M777A2 Howitzer

### Program Description
- **155mm Towed Howitzer**
- Joint US Army/USMC Program
- AAO: US Army 542 and USMC 511
- FMS to Canada (37) and Australia (35)
- BAE Systems (UK) is Prime Contractor for Production and Initial Sustainment
- GFE Cannon manufactured at Watervliet Arsenal
- GFE Optical Fire Control, INU, PFM, Spade Dampers, BII competitively procured

### Key Requirements/Performance
- Weight < 10,000 lbs
- Emplacement < 3 Minutes
- Displacement < 2-3 Minutes
- Rate of Fire > 4 rounds per Minute
- Digital and Optical Fire Control
- Compatible with Excalibur and PGK
- Air Mobility: MV22, CH53D/E, CH47D

### Production/Sustainment Schedule
- Army/USMC Production through Nov 2013
  - >850 of 1071 fielded to date
- Additional Production Potential
  - Significant FMS interest
- Sole source ICS sustainment contract through Feb 13
- Competitive Performance Based Life Cycle Support (PBLCS) contract in FY13

### Modernization Strategy
- Limited Cannon and Platform Program
  - Traverse Assist Kit (TrAK)
  - Hydraulic Power Assist Kit (HyPAK)
  - Electronic Thermal Warning Device (ETWD)
- Active Digital Fire Control Refresh
  - Improved Power Conditioning Control Module
  - Smart Batteries
  - Muzzle Velocity Sensor System (MVSS)
  - Computer and Displays
  - Radios
M777A2 Roadmap

- **FY09**
  - Production / Interim Contractor Support
  - Training Aids
  - Mission Computer / Chief of Section Display
  - DFCS Refresh

- **FY10**
  - Contract Awarded

- **FY11**
  - I-PCCM / Batteries
  - TrAK
  - MVSS
  - MMI
  - ETWD

- **FY12**
  - HyPAK

- **FY13**
  - Gunners Displays

- **FY14**

- **FY15**

- **FY16**

- **FY17**

- **FY18**

- **FY19**

- **FY20**

**Base Program**

**Contract Awarded**

**Opportunity**
M777A2 Digital Fire Control Refresh

**Communications:**
Upgrade Radio, Implement I-PIK and remove DAGR
-May result in enclosure re-design
Projected Fielding: FY16-17

**Power:**
PCCM: Replace with I-PCCM to address field issues/support future upgrades
Smart Battery: Li-ion under investigation
Fielding: FY14

**Electronic Thermal Warning Device (ETWD):**
Replace current mercury device to address safety/MACS
M232A2 Z5
Fielding: FY 13-14

**Computer / Displays:**
MSC/CSD: Active replacement to address obsolescence/support future upgrades
Projected Fielding: FY15
Gunners Displays: Active replacement to address obsolescence
Projected Fielding: FY13

**Electronic Thermal Warning Device (ETWD):**
Replace current mercury device to address safety/MACS
M232A2 Z5
Fielding: FY 13-14

**Accuracy / Navigation:**
MVSS: New system integrated with DFCS
MVSS Fielding: FY12

**Gunners Displays:**
Gunner / Asst Gunner Display (GD/AGD)

**Communications:**
Upgrade Radio, Implement I-PIK and remove DAGR
-May result in enclosure re-design
Projected Fielding: FY16-17

**Power:**
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**Computer / Displays:**
MSC/CSD: Active replacement to address obsolescence/support future upgrades
Projected Fielding: FY15
Gunners Displays: Active replacement to address obsolescence
Projected Fielding: FY13

**Accuracy / Navigation:**
MVSS: New system integrated with DFCS
MVSS Fielding: FY12

**Accuracy / Navigation:**
INU: Refresh aging components
VMS: Refresh aging components
Mission Computer Attributes

• Same physical space claim as existing
• Reuse of all existing cables and harnesses
• Reduced power consumption
• 1.6GHz dual-core processor with 2GB RAM (min)
• 16GB Solid State Drive
• Internal USB TacLink® Modem
• (8) RS-422, (8) Ethernet, (4) USB 2.0 ports
• 802.11n (threshold) and Bluetooth (objective)
  – Dedicated port for attaching external antenna
• Windows Standard Embedded 7 operating system
Chief of Section Attributes

- No larger than existing
- Same mating connector as existing
- 6lb (threshold) 4lb (objective) total weight
- 8” (or larger) LCD touch screen
- 800MHz dual-core processor with 512MB RAM (min)
- Ethernet port
- Dedicated maintenance port
- Hot swappable internal battery
- 802.11n (threshold) and Bluetooth (objective)
  - Internal antenna
- Windows Embedded Compact 7 operating system
Gunners Display Attributes

- Improved sunlight readability
- Reduced power consumption
- Higher reliability
- Simplified repair procedures
- Lower unit cost
Acquisition Strategy

• Competitively awarded
  • Firm Fixed Price (FFP)
  • Indefinite Delivery, Indefinite Quantity (IDIQ)

• Best Value
  • Manufacturing / Management
    • Obsolescence Strategy
  • Technical
  • Past Performance
  • Cost
  • Small Business Participation

RFP’s to be on FedBizOpps in 2-4 weeks
Performance Based Life Cycle Support (PBLCS) Vision

Vision:
Establish a Joint Government/Contractor Team to provide world class sustainment of the M777A2 Lightweight 155MM Howitzer that meets or exceeds Warfighter expectations at the Best Value to the Government

Long Term Aspiration:
Contractor assumes responsibility for overall Availability of the Howitzer
PBLCS Goals

- **Responsiveness:**
  - Rapidly identify Warfighter Performance Based Agreement (PBA) Metric shortfalls and implement corrective action
  - Provide Field Service Representatives to support fielded units

- **System Improvements:**
  - Apply Systems Engineering and Configuration Management to manage obsolescence, technical insertion, and provide long term solutions and improvements to the system
  - Maintain ILS products (TM’s, LSA, etc)

- **Overall System Support Management:**
  - Develop and Manage PBAs with Organic and Contractor Product Support Providers to meet Warfighter PBA Metrics

- **Supply Support:**
  - Forecast requirements, manage inventory, and provide timely delivery of spares to meet metrics
PBLCS Acquisition Strategy

• Contemplated strategy is a 10 year contract
  – Base year plus four 1 year Options.
  – At the end of each of the first 5 years, the Government would evaluate the contractor under an Award Term scenario for extending the contract an additional year.

• All options and award terms would be subject to the availability of funds.

• 2 Step Proposal Strategy
PM-TAS Opportunity
M119A2 Digitization

Off Carriage ‘sled’

On carriage

Power-Sled and Brackets-Cables-Gunners Display
Questions ?