NDIA Small Arms Systems Symposium

MAJ Marc Meeker
Assistant Product Manager
Medium Caliber Ammunition
Agenda

- 40mm Family
- Funded Efforts
- Emerging Requirements
- Wants/ Ideas
40mm Family

High Velocity
- M430A1
- M918A1
- M385A1
- M781
- M433

Low Velocity
- M583A1
- M585
- M661
- M662
- M992

DISTRIBUTION STATEMENT A:
Approved for Public Release; distribution is unlimited.
## 2010: 40mm Grenades Roadmap

### New Systems Contract

<table>
<thead>
<tr>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
<th>FY14</th>
<th>FY15</th>
<th>FY16</th>
<th>FY17</th>
<th>FY18</th>
<th>FY19</th>
<th>FY20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **High Velocity (HV) HEDP** (M430A1/B542)
  - MEMS Fuze
  - Liner
- **Low Velocity (LV) HEDP** (M430/B546)
  - MEMS Fuze
  - One Piece Liner
- **NDP Trainers**
  - Mixed Belt
  - M385/M918
  - NDP HV
  - NDP Day Night LV

### Key Technologies

- **Improved Lethality Warhead**
- **Airburst Technology (PABM or Prox Fuze)**
- **Insens Munitions (PEO Funded)**
- **Intel Gathering Munition**
- **Terminal Guidance Round**
- **Anti-Armor Munition**
- **Non Dud Producing (HV)**
- **Marking Round**
- **Door Breeching**
- **Close In Anti Personnel**
- **Improved Lethality Warhead**

### Funding Status

- **Projected**: M430A1 HEDP, M430A2 HEDP (Army at QWARM, buys for USMC Only)
- **Funded**: M433 HEDP, M433A1 HEDP, M781 TP
- **Unfunded**: Various technologies and system contracts

### Remarks

* Requirement Pending from USAIC, source: SAB 1–N List, Published 08 March 2010

**DISTRIBUTION STATEMENT A:**
Approved for Public Release; distribution is unlimited.
40mm Grenades: Funded Production/ NRE

M430
- One Piece Liner
- Pivot Coupling

Mixed Belt (M385/M918)

M433
- One Piece Liner

M430 and M433 can be found on the diagram.

Illumination Family
- M992 IR Illum Round

M781

DISTRIBUTION STATEMENT A:
Approved for Public Release; distribution is unlimited.
40mm Grenades: RDT&E

- MEMS Fuze
- Door Breeching
- Intel Gathering
- Non-Dud Producing
  - NDP, of course
  - Day/ Night/ NVD/ Thermal Signature
  - Platform compatibility
  - Ballistic Similitude
  - Fire Safety
40mm Grenades: Anticipated Requirements

- **High Velocity**
  - Non-Dud Producing Training Munition

- **Low Velocity**
  - Non Dud-Producing Training Munition
## 40mm Grenades: Wants/ Ideas

### High Velocity
- Programmable Airburst
- Prox Fuze
- **Improved Lethality**
- Terminal Guidance Round
- Marking Round
- Anti Armor

### Low Velocity
- Programmable Airburst
- Prox Fuze
- **Improved Lethality**
- Terminal Guidance Round
- Marking Round
- **Anti Armor**
- Intel Gathering
- Close-In Anti-Personnel
NDP Round Road Ahead

- Staff CDD (HV) and CPD (LV)
- Complete Market Survey (Check FEDBIZOPS)
- Draft Acquisition Strategy
  - Looking at NDI solution, with a shoot-off to down select
- Develop Detailed Schedule