XM1112, Airburst Non Lethal Munition (ANLM)

DESCRIPTION:

• ANLM is a Non-lethal, low velocity, 40mm flash/bang cartridge which is fired from the M320/M203 Grenade Launchers
• Provides a significant increase in range over current NL capabilities
• Provides a consistent non-lethal effect from 35m to 300m, 400m(O) by utilizing a proximity fuze that initiates approximately 5 meters from target
• User selectable proximity and delay modes
• Acquisition Program of Record currently in EMD phase

SERVICE INTEREST/ANTICIPATED END USER:

• ARMY, AIR FORCE
• MCOE, MSCoE, CASCOM

GOVERNMENT POCs:

• Combat Developer - Mr. Steve Howard, MCoE, 706-545-6043, steven.r.howard8ctr@mail.mil
• Material Developer - Pre-MS C: Mr. Percy Mistry, PMSW, 973-724-6283, percy.mistry@us.army.mil
  Post MS C: Mr. Ken Schulters, PM-CCS, 973-724-2387, ken.schulters@us.army.mil
XM1112, Airburst Non Lethal Munition (ANLM)
Service Requirements

**Mission / Concept of Operation:** Counter-Personnel – Move/Deny/Suppress Individuals

**Service Urgent Need or Service JCIDS Document:** Tactical NL Munition (TNLM) Capability Development Document (CDD) Increment 1

**Proposed JNLWP Portfolio:** CP – Combined Effects Portfolio (Suppress, Move, Deny Access to Individuals)

<table>
<thead>
<tr>
<th>Requirement (KPP/KSA)</th>
<th>Requirement Description Long Title</th>
<th>Threshold</th>
<th>Objective</th>
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</thead>
<tbody>
<tr>
<td>KPP 1</td>
<td>Nonlethal Effects</td>
<td>Probability of nle/shot &gt; .80</td>
<td>Probability of nle/shot &gt; .90</td>
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<tr>
<td>KPP 2</td>
<td>Duration of NL Effects</td>
<td>Duration of ≥ 30 sec</td>
<td>Duration of ≥ 60 sec</td>
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<tr>
<td>KPP 3</td>
<td>Accuracy</td>
<td>TNLM will function ballistically similar to the current M433 high explosive dual purpose (HEDP) round for the M320 whereby any ballistic difference will not require aim point adjustments to achieve comparable results at operational range.</td>
<td>TNLM will function as a ballistic match to the current M433 HEDP round for the M320.</td>
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<tr>
<td>KPP 4</td>
<td>Reliability</td>
<td>Reliability ≥ .95</td>
<td>Reliability ≥ .98</td>
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<tr>
<td>KPP 5</td>
<td>Minimum Engagement Range (MER)</td>
<td>MER not greater than 35 meters</td>
<td>MER not greater than 15 meters</td>
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<tr>
<td>KSA</td>
<td>Risk of Significant Injury (RSI)</td>
<td>RSI is remote at &lt;10% (T)</td>
<td>RSI is improbable at &lt;1% (O)</td>
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XM1112, Airburst Non Lethal Munition (ANLM)

DEVELOPMENTAL APPROACH / ACQ STRATEGY:
• Complete engineering integration test, produce hardware /conduct Developmental Testing (DT)/Limited Objective Experiment, achieve MS C/TC, transition to PM-CCS, full and open competition planned with government owned TDP

ACCOMPLISHMENTS:
• Completed fuze and warhead component level testing, resolved projectile stopping and circuit board quality issues, completed initial integration test

CURRENT PERFORMERS:

FISCAL YEAR OBJECTIVES:
• Complete Integration test, start DT

ANTICIPATED CONTRACTING ACTIONS:
• FY14 – market survey and section 806 review will determine restrictions, if applicable
• Basic award with options planned
• Best Value, full and open competition planned with government owned TDP

Current Technology Readiness Level (TRL): 7
Current Human Effects Readiness Level (HERL): 6

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## XM1112, Airburst Non Lethal Munition (ANLM)

### Overall Schedule

<table>
<thead>
<tr>
<th>Task, Milestone, or Deliverable</th>
<th>FY09</th>
<th>FY10</th>
<th>FY11</th>
<th>FY12</th>
<th>FY13</th>
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<td>MS B</td>
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<tr>
<td>Cartridge/Fuze Contract Options</td>
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<td>Fuze Subassembly/Warhead Test</td>
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<td>Component Integration (55 &amp; 225)</td>
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<td>Critical Design Review</td>
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<td>DT/LOE/Fuze Qual.</td>
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