UNCLASSIFIED

Department of Defense
Fiscal Year (FY) 2014 Amended Budget Estimates
May 2013

UNCLASSIFIED

Army
Consolidated Justification Book

UNCLASSIFIED
<table>
<thead>
<tr>
<th>Appropriation</th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
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<tbody>
<tr>
<td>Aircraft Procurement, Army</td>
<td>5,475,415</td>
<td>5,371,568</td>
<td>486,200</td>
<td>5,857,708</td>
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<td>1,587,779</td>
<td>1,439,982</td>
<td>49,653</td>
<td>1,489,635</td>
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<td>2,071,185</td>
<td>2,064,127</td>
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<tr>
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<td>1,882,175</td>
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<tr>
<td>Other Procurement, Army</td>
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<td>7,531,591</td>
<td>2,015,907</td>
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<tr>
<td>Joint Impr Explosive Dev Defeat Fund</td>
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<td>1,675,400</td>
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<td>18,289,383</td>
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<td>22,889,458</td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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<table>
<thead>
<tr>
<th>Appropriation</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aircraft Procurement, Army</td>
<td>5,024,387</td>
<td>771,788</td>
<td>5,796,175</td>
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<tr>
<td>Missile Procurement, Army</td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### Appropriation: Aircraft Procurement, Army

<table>
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<tr>
<th>Budget Activity</th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
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</thead>
<tbody>
<tr>
<td>01. Aircraft</td>
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<td><strong>Total Aircraft Procurement, Army</strong></td>
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<td>5,857,708</td>
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Appropriation: Aircraft Procurement, Army

<table>
<thead>
<tr>
<th>Budget Activity</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>20. Undistributed</td>
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<tr>
<td><strong>Total Aircraft Procurement, Army</strong></td>
<td>5,024,387</td>
<td>771,788</td>
<td>5,796,175</td>
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Appropriation: 2031A Aircraft Procurement, Army

<table>
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<th>Line No</th>
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<th>FY 2013 OCO Request with CR Adj*</th>
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<td></td>
<td></td>
<td>Quantity</td>
<td>Cost</td>
<td>Quantity</td>
<td>Cost</td>
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<td>Saturn Anch (MIP)</td>
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<td>2</td>
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<td>518,088</td>
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<tr>
<td>3</td>
<td>MQ-1 UAV</td>
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<td>1131</td>
<td>86,062</td>
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<tr>
<td>4</td>
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<td>5</td>
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<td>(-160,237)</td>
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<td>(-192,364)</td>
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<tr>
<td>7</td>
<td>AH-64 Apache Block IIIA Reman Advance Procurement (CY)</td>
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<td>192,764</td>
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<td>107,797</td>
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<td>AH-64 Apache Block IIIB New Build Less: Advance Procurement (FY)</td>
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<td>(258,256)</td>
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<td>9</td>
<td>AH-64 Apache Block IIIB New Build Advance Procurement (CY)</td>
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<td>10</td>
<td>Kiowa Warrior NRA</td>
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<td>112,800</td>
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Appropriation: 2013A Aircraft Procurement, Army

<table>
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<td>3</td>
<td>MQ-1 UAV</td>
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<td>15</td>
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<tr>
<td>4</td>
<td>RQ-11 (RAVEN)</td>
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</table>

Rotary

<table>
<thead>
<tr>
<th>Line No</th>
<th>Item Nomenclature</th>
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<tr>
<td></td>
<td>Code</td>
<td>Quantity</td>
<td>Cost</td>
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<tr>
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<td>Helicopter, Light Utility (LUSH)</td>
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<tr>
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<td>AH-64 Apache Block IIIA Reman Advance Procurement (CY)</td>
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<tr>
<td>8</td>
<td>AH-64 Apache Block IIIB New Build Less: Advance Procurement (FY)</td>
<td>A</td>
<td>146,121</td>
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<td>9</td>
<td>AH-64 Apache Block IIIB New Build Advance Procurement (CY)</td>
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<tr>
<td>10</td>
<td>Known Warrior WRA</td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

UNCLASSIFIED
### Appropriation: 2031A Aircraft Procurement, Army

<table>
<thead>
<tr>
<th>Line No</th>
<th>Item Nomenclature</th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
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<th>FY 2013 Total Request with CR Adj*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Quantity</td>
<td>Cost</td>
<td>Quantity</td>
<td>Cost</td>
</tr>
<tr>
<td>11</td>
<td>UH-60 Blackhawk M Model (MTP)</td>
<td>89</td>
<td>(5,597,728) (-99,662)</td>
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<td>(1,304,979) (-197,992)</td>
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<td>Less: Advance Procurement (FY)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,497,766</td>
<td>1,107,087</td>
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<tr>
<td>12</td>
<td>UH-60 Blackhawk M Model (MTP)</td>
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<tr>
<td></td>
<td>Advance Procurement (CY)</td>
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<td>115,113</td>
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<tr>
<td>13</td>
<td>CH-47 Helicopter</td>
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<tr>
<td></td>
<td></td>
<td>1,239,360</td>
<td>1,076,036</td>
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<tr>
<td>14</td>
<td>CH-47 Helicopter</td>
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<td></td>
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<tr>
<td></td>
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<td>4,750,342</td>
<td>4,291,826</td>
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</table>

### Total Aircraft

|         |                                    | 83,346 | 486,200 |          |        |
|         |                                    | 4,687,228 |        |          |        |

**Budget Activity 02: Modification of Aircraft**

**Modification of Aircraft**

<table>
<thead>
<tr>
<th>Line No</th>
<th>Item Nomenclature</th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
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<tr>
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<td>Quantity</td>
<td>Cost</td>
<td>Quantity</td>
<td>Cost</td>
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<td>16</td>
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<tr>
<td>18</td>
<td>AH-64 Mods</td>
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<td>19</td>
<td>CH-47 Cargo Helicopter Mods (MTP)</td>
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<td>20</td>
<td>Utility/Cargo Airplane Mods</td>
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<td>22</td>
<td>Kiowa Mods Warrior</td>
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<td>92,552</td>
<td>192,484</td>
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<thead>
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<tr>
<td></td>
<td></td>
<td>Base</td>
<td>OCO</td>
<td>Total</td>
</tr>
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<td>11</td>
<td>UH-60 Blackhawk M Model (NYP)</td>
<td>65</td>
<td>(1,155,187)</td>
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<td></td>
<td>Advance Procurement (CY)</td>
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<tr>
<td>13</td>
<td>CH-47 Helicopter</td>
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<td>Total Aircraft</td>
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### Budget Activity 02: Modification of Aircraft

<table>
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<tr>
<th>Modification of Aircraft</th>
<th>FY 2014</th>
<th>FY 2014</th>
<th>FY 2014</th>
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<tbody>
<tr>
<td>15 MQ-1 Payload - VAS</td>
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<tr>
<td>16 Guardrail Mods (MIP)</td>
<td>10,262</td>
<td>10,262</td>
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</tr>
<tr>
<td>17 Multi Sensor ABN Recon (MIP)</td>
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<td>12,467</td>
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</tr>
<tr>
<td>18 AH-64 Mods A 53,559</td>
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<td>19 CH-47 Cargo Helicopter Mods (MIP)</td>
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<td>20 Utility/Cargo Airplane Mods</td>
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<td>21 Utility Helicopter Mods</td>
<td>167 74,095</td>
<td>167 74,095</td>
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<td>22 Kiowa Mods Warrior</td>
<td>3 184,044</td>
<td>3 184,044</td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
## Appropriation: 2031A Aircraft Procurement, Army

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<th>FY 2013 OCO Request</th>
<th>FY 2013 Total Request</th>
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<td>(Base &amp; OCO)</td>
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<td>with CR Adj*</td>
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<td>165,139</td>
<td>104,339</td>
<td>104,339</td>
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</table>

**Total Modification of Aircraft**

1,284,711  1,276,743  1,276,743

---

### Budget Activity 04: Support Equipment and Facilities

**Ground Support Avionics**

27 Aircraft Survivability Equipment  35,993  34,037  34,037  U

28 Survivability CM  U

29 CMWS  A  104,251  127,751  127,751  U

**Other Support**

30 Avionics Support Equipment  568  4,840  4,840  4,840  U

31 Common Ground Equipment  114,517  82,511  82,511  U

32 Aircrew Integrated Systems  62,746  77,381  77,381  U

33 Air Traffic Control  114,944  47,235  47,235  U

34 Industrial Facilities  1,593  1,643  1,643  U

35 Launcher, 2.75 Rocket  449  2,879  516  516  U

**Total Support Equipment and Facilities**

441,662  375,960  375,960

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
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Budget Activity 04: Support Equipment and Facilities

Ground Support Avionics
- 27 Aircraft Survivability Equipment: 47,610, 47,610 U
- 28 Survivability CM: 5,700, 5,700 U
- 29 CMWS: 126,869, 126,869 U

Other Support
- 30 Avionics Support Equipment: 496,102, 6,809 U
- 31 Common Ground Equipment: 65,397, 65,397 U
- 32 Aircrew Integrated Systems: 45,941, 45,941 U
- 33 Air Traffic Control: 79,692, 79,692 U
- 34 Industrial Facilities: 1,615, 1,615 U
- 35 Launcher, 2.75 Rocket: 2,877, 2,877 U

Total Support Equipment and Facilities: 352,410, 382,410
Appropriation: 2031A Aircraft Procurement, Army

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P-10A: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

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### Appropriation: 2031A Aircraft Procurement, Army

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| | 5,024,387 | 771,788 | 5,796,175 |

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: Missile Procurement, Army

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*ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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Appropriation: Missile Procurement, Army

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Appropriation: 2032A Missile Procurement, Army

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F-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

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Appropriation: 2014A Missile Procurement, Army

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### Appropriation: 2032A Missile Procurement, Army

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### Budget Activity 04: Spares and Repair Parts

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### Budget Activity 05: Support Equipment and Facilities

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

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### Appropriation: 2032A Missile Procurement, Army

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**Budget Activity 20:** Undistributed

**Total Missile Procurement, Army**

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*Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
Appropriation: 2032A Missile Procurement, Army

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Budget Activity 20: Undistributed

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Undistributed

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Total Undistributed

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Total Missile Procurement, Army

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Appropriation: Procurement of W&TCV, Army

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P-ICA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

* Reflects the FY 2013 President’s Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
Appropriation: Procurement of M&TCV, Army

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<td>02. Weapons and Other Combat Vehicles</td>
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<td>03. Spare and Repair Parts</td>
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<td>20. Undistributed</td>
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Appropriation: 2033A Procurement of W&TCV, Army

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<td>8</td>
<td>Assault Bridge (Mod)</td>
<td>U</td>
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<td>9</td>
<td>Assault Breacher Vehicle</td>
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<td>M88 FOC MOPS</td>
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<td>Joint Assault Bridge</td>
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<td>Support Equipment &amp; Facilities</td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
Department of the Army
FY 2014 President's Budget
Exhibit P-1 FY 2014 President's Budget
Total Obligational Authority
(Dollars in Thousands)

May 13, 2013

Appropriation: 2033A Procurement of Wheeled Combat Vehicles

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<td>Abrams Upgrade Program</td>
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Support Equipment & Facilities

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Total Tracked Combat Vehicles

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P-1Ch: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
## Appropriation: 2033A Procurement of M6TCV, Army

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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Appropriation: 2033A Procurement of WATCIV, Army

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<td>Lightweight .50 Caliber Machine Gun</td>
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Mod of Weapons and Other Combat Veh

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F-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### Appropriation: 2033A Procurement of W&TCV, Army

<table>
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<tr>
<th>Line No</th>
<th>Item Nomenclature</th>
<th>FY 2012 Base</th>
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<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
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<td>Code</td>
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**Budget Activity 03: Spare and Repair Parts**

**Spares**

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**Budget Activity 20: Undistributed**

**Undistributed**

- **(A) to Watch Continuing Resolution**

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**Total Procurement of W&TCV, Army**

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### Appropriation: 2033A Procurement of WATCV, Army

#### FY 2014 Procurement of WATCV, Army

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<td>Quantity</td>
<td>Quantity</td>
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##### Budget Activity 03: Spares and Repair Parts

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##### Budget Activity 20: Undistributed

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<td>Adj to Watch Continuing Resolution</td>
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<td></td>
<td>Total Undistributed</td>
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P-ICA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: Procurement of Ammunition, Army

<table>
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<tr>
<th>Budget Activity</th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
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<td>01. Ammunition</td>
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P-1C4: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
Appropriation: Procurement of Ammunition, Army

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<thead>
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<th>Budget Activity</th>
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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### Appropriation: 2034A Procurement of Ammunition, Army

<table>
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<th>FY 2013 OCO Request with CR Adj</th>
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<td>Quantity</td>
<td>Cost</td>
<td>Quantity</td>
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<td>1</td>
<td>Cartridge Cal .30 Blank M1909 All Types</td>
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<td>158,313</td>
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<td>91,438</td>
<td>158,313</td>
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<td>3</td>
<td>3 Ctg, 7.62mm, All Types</td>
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**Footnote:** FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

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Appropriation: 2034A Procurement of Ammunition, Army

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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<th>Line No</th>
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<th>FY 2013 OCO Request with CR Adj*</th>
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P-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
*Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
### Appropriation: 2634A Procurement of Ammunition, Army

<table>
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<th>FY 2014 Total</th>
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<tr>
<td>15</td>
<td>Artillery Projectile, 155mm, All Types</td>
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<td>47,902</td>
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<td>16</td>
<td>Proj 155mm Extended Range M982</td>
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<td>17</td>
<td>Artillery Propellants, Fuzes and Primers, All</td>
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<tr>
<td>18</td>
<td>Mines</td>
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<tr>
<td>19</td>
<td>Mines &amp; Clearing Charges, All Types</td>
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<tr>
<td>20</td>
<td>Networked Munitions</td>
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<td>21</td>
<td>Spider Network Munitions, All Types</td>
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<td>22</td>
<td>Rockets</td>
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<td>Shoulder Launched Munitions, All Types</td>
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<td>Other Ammunition</td>
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<td>Demolition Munitions, All Types</td>
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<td>Miscellaneous</td>
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<td>Ammo Components, All Types</td>
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<td>C&amp;O/Proc All Types</td>
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P-1Ca: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: 2034A Procurement of Ammunition, Army

<table>
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<th>Line</th>
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<tr>
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<td>Ident Code</td>
<td>Quantity</td>
<td>Cost</td>
<td>Quantity</td>
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<td>30</td>
<td>Ammunition Peculiar Equipment</td>
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<td>14,107</td>
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<tr>
<td>32</td>
<td>Closeout Liabilities</td>
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<td>Total Ammunition</td>
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Budget Activity 02: Ammunition Production Base Support

<table>
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<th>Production Base Support</th>
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<tbody>
<tr>
<td>33 Provision of Industrial Facilities</td>
<td>231,283</td>
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<tr>
<td>34 Conventional Munitions Demilitarization</td>
<td>178,143</td>
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<tr>
<td>35 Arms Initiative</td>
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<td>Total Ammunition Production Base Support</td>
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Budget Activity 03: Undistributed

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<tr>
<th>Undistributed</th>
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<tbody>
<tr>
<td>36 Adj to Match Continuing Resolution</td>
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<tr>
<td>Total Undistributed</td>
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<tr>
<td>Total Procurement of Ammunition, Army</td>
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</table>

P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
### Appropriation: 2034A Procurement of Ammunition, Army

<table>
<thead>
<tr>
<th>Line No.</th>
<th>Item Nomenclature</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>30</td>
<td>Ammunition Peculiar Equipment</td>
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<td>16,604 U</td>
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<tr>
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<td>First Destination Transportation (AMMO)</td>
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<td>14,328 U</td>
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<td>32</td>
<td>Closeout Liabilities</td>
<td></td>
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<td>108 U</td>
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<td>180,900</td>
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**Budget Activity 02: Ammunition Production Base Support**

<table>
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<tr>
<th>Production Base Support</th>
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<tbody>
<tr>
<td>33 Provision of Industrial Facilities</td>
</tr>
<tr>
<td>34 Conventional Munitions Demilitarization</td>
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<td>35 Armas Initiative</td>
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<td><strong>Total Ammunition Production Base Support</strong></td>
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**Budget Activity 20: Undistributed**

<table>
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<tbody>
<tr>
<td>36 Adj to Match Continuing Resolution</td>
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<tr>
<td><strong>Total Undistributed</strong></td>
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<tr>
<td><strong>Total Procurement of Ammunition, Army</strong></td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: Other Procurement, Army

<table>
<thead>
<tr>
<th>Budget Activity</th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
</tr>
</thead>
<tbody>
<tr>
<td>01. Tactical and Support Vehicles</td>
<td>2,559,133</td>
<td>654,206</td>
<td>1,220,697</td>
<td>1,882,963</td>
</tr>
<tr>
<td>02. Communications and Electronics Equipment</td>
<td>5,287,376</td>
<td>4,307,149</td>
<td>520,301</td>
<td>4,827,441</td>
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<tr>
<td>03. Other Support Equipment</td>
<td>1,693,150</td>
<td>1,300,392</td>
<td>266,905</td>
<td>1,567,301</td>
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<tr>
<td>04. Spare and Repair Parts</td>
<td>21,647</td>
<td>64,507</td>
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<td>64,507</td>
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<tr>
<td>20. Undistributed</td>
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<td>1,205,346</td>
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<tr>
<td>Total Other Procurement, Army</td>
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<td>7,531,591</td>
<td>2,015,907</td>
<td>9,547,498</td>
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</tbody>
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* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
### Appropriation: Other Procurement, Army

<table>
<thead>
<tr>
<th>Budget Activity</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>01. Tactical and Support Vehicles</td>
<td>455,236</td>
<td>321,040</td>
<td>776,276</td>
</tr>
<tr>
<td>02. Communications and Electronics Equipment</td>
<td>4,269,524</td>
<td>224,165</td>
<td>4,493,789</td>
</tr>
<tr>
<td>03. Other Support Equipment</td>
<td>1,680,658</td>
<td>57,918</td>
<td>1,738,576</td>
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<tr>
<td>04. Spare and Repair Parts</td>
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<td>59,700</td>
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<td>20. Undistributed</td>
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</table>

**Total Other Procurement, Army**

<table>
<thead>
<tr>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>6,465,218</td>
<td>603,123</td>
<td>7,068,341</td>
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</tbody>
</table>

P-ICA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### Budget Activity 01: Tactical and Support Vehicles

#### Tactical Vehicles

1. **Tactical Trailers/Dolly Sets**
   - Identification Code: A
   - Quantity: 27
   - Cost: 7,097

2. **Semitrailers, Flatbed**
   - Identification Code: A
   - Quantity: 27
   - Cost: 7,097

3. **Family of Medium Tactical Veh (FMTV)**
   - Identification Code: 1706
   - Quantity: 344,030
   - Cost: 346,115

4. **Firetrucks & Associated Firefighting Equip**
   - Identification Code: 2,073
   - Quantity: 2,050
   - Cost: 19,292

5. **Family of Heavy Tactical Vehicles (FHTV)**
   - Identification Code: 1,0732
   - Quantity: 645,008
   - Cost: 52,933

6. **Pls Exp**
   - Identification Code: A
   - Quantity: 564
   - Cost: 251,667

7. **Mine Protection Vehicle Family**
   - Identification Code: A
   - Quantity: 56,671

8. **Truck, Tractor, Line Haul, M915/M916**
   - Identification Code: 12

9. **Kvy Expanded Mobile Tactical Truck Ext Serv**
   - Identification Code: 426
   - Quantity: 256,247

10. **HMMWV Recapitalization Program**
    - Identification Code: 4,313

11. **Tactical Wheeled Vehicle Protection Kits**
    - Identification Code: A
    - Quantity: 39,908

12. **Modification of In Svc Equip**
    - Identification Code: 81
    - Quantity: 344,772

13. **Mine-Resistant Ambush-Protected (MRAP) Mods**
    - Identification Code: A
    - Quantity: 571,179

#### Non-Tactical Vehicles

14. **Heavy Armored Sedan**
    - Identification Code: 1,161

15. **Passenger Carrying Vehicles**
    - Identification Code: 3,222
    - Cost: 2,548
Appropriation: 2035A Other Procurement, Army

<table>
<thead>
<tr>
<th>Line No</th>
<th>Item Nomenclature</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
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<td></td>
<td>Ident Code</td>
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<td>Cost</td>
</tr>
<tr>
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<td>Budget Activity 01: Tactical and Support Vehicles</td>
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<td></td>
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<tr>
<td>1</td>
<td>Tactical Trailers/Dolly Sets</td>
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<td>25</td>
<td>4,000</td>
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<tr>
<td>2</td>
<td>Semitrailers, Flatbed</td>
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<td>3</td>
<td>Family of Medium Tactical Veh (FMTV)</td>
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<td>837</td>
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<td>4</td>
<td>Firetrucks &amp; Associated Firefighting Equip</td>
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<td>5</td>
<td>Family of Heavy Tactical Vehicles (SMTV)</td>
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<tr>
<td>6</td>
<td>Pls Esp</td>
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<tr>
<td>7</td>
<td>Mine Protection Vehicle Family</td>
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<tr>
<td>8</td>
<td>Truck, Tractor, Line Haul, M915/M916</td>
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<tr>
<td>9</td>
<td>Hvy Expanded Mobile Tactical Truck Ext Serv</td>
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<td>10</td>
<td>FOCCV Recapitalization Program</td>
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<td>11</td>
<td>Tactical Wheeled Vehicle Protection Kits</td>
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<td>12</td>
<td>Modification of In Svc Equip</td>
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<tr>
<td>13</td>
<td>Mine-Resistant Ambush-Protected (MRAF) Mods</td>
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<td>2,200</td>
<td>321,040</td>
</tr>
</tbody>
</table>

Non-Tactical Vehicles
- 14 Heavy Armored Sedan: 400, 400 u
- 15 Passenger Carrying Vehicles: 716, 716 u

P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### Appropriation: 2035A Other Procurement, Army

<table>
<thead>
<tr>
<th>Line No.</th>
<th>Item Nomenclature</th>
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<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Ident Code</td>
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<td>Cost</td>
<td>Quantity</td>
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<tr>
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<td>Nontactical Vehicles, Other</td>
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**Total Tactical and Support Vehicles**

2,558,133

654,206

1,228,697

1,882,903

---

**Budget Activity 02: Communications and Electronics Equipment**

---

**Comm - Joint Communications**

17 Joint Combat Identification Marking System

A 7808 9,094 7038 10,061 7038 10,061 U

18 Win-T - Ground Forces Tactical Network

A 786 811,107 2166 882,635 2166 882,635 U

19 Signal Modernization Program

A 45,626 U

20 Joint Incident Site Communications Capability

A

21 JCSE Equipment (USRGDCOM)

4,826 5,143 5,143 U

**Comm - Satellite Communications**

22 Defense Enterprise Wideband Satcom Systems

20 111,859 23 151,636 23 151,636 U

23 Transportable Tactical Command Communications

A 6,822 U

24 SHF Term

2 9,108 9,108 U

25 Navstar Global Positioning System (SPACE)

B 9839 26,368 3592 27,353 3592 27,353 U

26 Smart-T (SPACE)

19,704 98,656 98,656 U

27 Scamp (SPACE)

2,415 U

28 Global Brdsat Svc - GBS

64,714 47,131 47,131 U

29 Mod of In-Svc Equip (TAC SAT)

140 31,799 39 23,281 39 23,281 U

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UNCLASSIFIED
Appropriation: 2035A Other Procurement, Army

<table>
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<td></td>
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<td>455,236</td>
<td>321,040</td>
<td>776,276</td>
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<tr>
<td></td>
<td>Total Tactical and Support Vehicles</td>
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Budget Activity 02: Communications and Electronics Equipment

Comm - Joint Communications

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<th>FY 2014</th>
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<tr>
<td></td>
<td></td>
<td>Base</td>
<td>OCO</td>
<td>Total</td>
<td>Cost</td>
</tr>
<tr>
<td>17</td>
<td>Joint Combat Identification Marking System</td>
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<td></td>
<td>u</td>
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<tr>
<td>18</td>
<td>Win-T - Ground Forces Tactical Network</td>
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<td>5,296</td>
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Comm - Satellite Communications

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<td>OCO</td>
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<td>27</td>
<td>Scamp (SPACE)</td>
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<td>Global Broadcast Svc - GBS</td>
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<td>Mod of In-Svc Equip (TAC SAT)</td>
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<td>2,778</td>
<td>2,778</td>
<td>U</td>
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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 23, 2013 at 13:07:53
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P-JCA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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F-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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**Elect Equip - Tactical Surv. (Tac Surv)**

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F-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

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Appropriation: 2035A Other Procurement, Army

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P-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
### FY 2013 Total Obligational Authority (Dollars in Thousands)

**Appropriation: 2035A Other Procurement, Army**

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**Elect Equip - Tactical C2 Systems**

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P-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
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P-ICA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: 2035A Other Procurement, Army

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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Appropriation: 2035A Other Procurement, Army

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F-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: 2035A Other Procurement, Army

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Budget Activity 03: Other Support Equipment

Chemical Defensive Equipment

125 Protective Systems                        | A                  | 11,172 | 15,213 | 1562 | 3,960 | 15,000 | 1562 | 18,960 | 18,960 | 18,960 | 18,960 | 18,960 | 18,960 |

126 Family of Non-Lethal Equipment (FNLE)   | A 1638             | 45,204  | 637 | 4,374 | 66,100 | 637 | 70,474 | 70,474 |

127 Base Defense Systems (BDS)               | A                  | 17231   | 11,900 | 219  | 9,259 | 219  | 9,259  |

129 Smoke & Obscurant Family: SOF (NON AAC ITEM) | 60                 | 362     | 35,499 | 7 | 35,499 | 7 | 35,499 |

Bridging Equipment

130 Tactical Bridging                        | 2                  | 62,293  | 7 | 35,499 | 7 | 35,499 |

131 Tactical Bridge, Float-Ribbon            | 107                | 67,854  | 88 | 32,893 | 88 | 32,893 |

132 Common Bridge Transporter (CBT) Recap    | A                  | 38,893  |

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P-1CA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53

* Reflects the FY 2013 President’s Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
### Appropriation: 2035A Other Procurement, Army

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P-ICA: FY 2014 President's Budget (Published Version including OCD), as of May 13, 2013 at 13:07:53
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P-1CH: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
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Appropriation: 2035A Other Procurement, Army

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P-1CA: FY 2014 President's Budget (Published Version including GCO), as of May 13, 2013 at 13:07:53
Appropriation: 2035A Other Procurement, Army

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Total Other Support Equipment

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P-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
Appropriation: 2035A Other Procurement, Army

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### Appropriation: 2035A Other Procurement, Army

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May 13, 2013

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P-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:07:53
## Table of Contents

- Line Item Table of Contents (by Appropriation then Line Number) ......................................................................................... ii
- Line Item Table of Contents (Alphabetically by Line Item Title) .............................................................................................. iii
- Exhibit P-40's.................................................................................................................................................................................. 1
## Appropriation 2031A: Aircraft Procurement, Army

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions):
- FY 2012: -
- FY 2013: 11.143
- FY 2014: 11.257
- FY 2015: 11.321
- FY 2016: 11.400
- FY 2017: 11.490
- FY 2018: 11.577

Flyway Unit Cost (Units in Thousands):
- FY 2012: 11.143
- FY 2013: 11.257
- FY 2014: 11.321
- FY 2015: 11.400
- FY 2016: 11.490
- FY 2017: 11.577
- FY 2018: 11.644

Gross/Weapon System Unit Cost (Units in Thousands):
- FY 2012: 16,281.830
- FY 2013: 18,993.030
- FY 2014: 21,972.130
- FY 2015: 25,347.730
- FY 2016: 28,993.930
- FY 2017: 32,934.530
- FY 2018: 37,274.130

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Description:
Gray Eagle provides the Division Commander a dedicated, assured, multi-mission Unmanned Aircraft System (UAS) for the tactical fight assigned to Combat Aviation Brigade (CAB), Army Special Operations Aviation Command, (ARSOAC), and Aerial Exploitation Battalions (AEB) in support of the Division Fires, Battlefield Surveillance Brigades (BSB) and Brigade Combat Teams (BCT), based upon the Division Commander's priorities. Provides Reconnaissance, Surveillance, and Target Acquisition (RSTA), command and control, communications relay, Signals Intelligence (SIGINT), and battle damage assessment capability. The MQ-1C Gray Eagle UAS will be fielded to (15) units. A Gray Eagle unit consists of either 9 or 12 Aircraft and a Standard Equipment Package (SEP) and Payloads to include: Electro-Optical/Infrared Laser Range Finder/Laser Designator (EO/IR/LD), communication relay, and up to (4) HELLFIRE Missiles. The Combat Aviation Brigades (CAB) consist of Soldiers, (9) Aircraft, (5) Universal Ground Control Stations (UGCS), (6) Universal Ground Data Terminals (UGDT), (1) Mobile Ground Control Station (MGCS), (1) Satellite Communication (SATCOM) Ground Data Terminal (SGDT), (9) Satellite Airborne Data Terminals (SADT), (3) Automatic Take-off and Landing Systems (ATLS), and Ground Support Equipment (GSE). The Aerial Exploitation Battalions (AEB) consist of (9) Aircraft, (5) Universal Ground Control Stations (UGCS), (6) Universal Ground Data Terminals (UGDT), (1) Mobile Ground Control Station (MGCS), (1) Satellite Communication (SATCOM) Ground Data Terminal (SGDT), (9) Satellite Airborne Data Terminals (SADT), (3) Automatic Take-off and Landing Systems (ATLS), and Ground Support Equipment (GSE). The number soldiers assigned to each of the AEB units will be determined upon issuance of the Force Design Update in the summer of 2013. The Army Special Operations Aviation Command (ARSOAC) units consist of Soldiers, (12) Aircraft, (6) Universal Ground Control Stations (UGCS), (7) Universal Ground Data Terminals (UGDT), (3) Mobile Ground Control Stations (MGCS), (3) Satellite Communication (SATCOM) Ground Data Terminals (SGDT), (12) Satellite Airborne Data Terminals (SADT), (3) Automatic Take-off and Landing Systems (ATLS), and Ground Support Equipment (GSE). Deployed units also receive (4) Ka Satellite Communication (SATCOM) Ground Data Terminals (SGDT) and (12) Ka Satellite Communications (SATCOM) Airborne Data Terminals (SADT) for access to military (Ka band) satellites while OCONUS.

The Army directed changes to the Gray Eagle fielding strategy that required changes to planned procurement quantities. Given the changed fielding strategy the FY 13 quantities for ground equipment only on this exhibit for FY13 do not match current plans.

This budget line also includes procurement of training devices, Ground Based Sense and Avoid (GBSAA), and new equipment training and fielding. GBSAA provides a solution to the "See and Avoid (SAA)" issues associated with gaining access to the National Airspace System (NAS) for UAS. GBSAA is a ground-based means of detecting airborne traffic and providing the necessary intelligence to the UAS, allowing it to "See and Avoid" as an alternate means of compliance with CFR Part 91.
UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet:  PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

P-1 Line Item Nomenclature:
A00005 - MQ-1 UAV

ID Code (A=Service Ready, B=Not Service Ready) :
Program Elements for Code B Items:
Other Related Program Elements: 0307204A, 0305219A

MDAP/MAIS Code(s):

Date: May 2013

Justification:
FY 2014 Gray Eagle Base funding of $518.460 million procures (15) Aircraft, (8) Universal Ground Control Stations (UGCS), (12) Mobile Ground Control Stations (MGCS), (6) Automated Take Off and Landing Systems (ATLS), (8) Satellite Communications (SATCOM) Ground Data Terminals (SGDT), (12) Ka Satellite Communication (SATCOM) Ground Data Terminals (Ka SGDT), (18) Satellite Airborne Data Terminals (SADT), (36) Ka Satellite Communications (SATCOM) Airborne Data Terminals (Ka SADT), (6) lots of Ground Support Equipment (GSE), New Equipment Training (NET), Initial Spares, Training Devices and other ground support equipment. Funds also procure 4 sites of Ground Base Sense and Avoid (GBSAA) equipment.


All COMPO 1 Active

NOTE: FY12 quantity on P-40 is correct.
### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Thousands) | 16,281.830 | 18,993.030 | 27,267.780 | 34,564.000 | - | 28,970.047 | 15,480.067 | - | - | - | - | 20,894 |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## FY 2014 OCO

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Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

P-1 Line Item Nomenclature:
A00005 - MQ-1 UAV

Item Nomenclature (Item Number - Item Name, DODIC): A00005 - MQ-1 UAV
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## P-5 Remarks:

- **Operational Site Activation**: No costs listed for FY 2015 and FY 2016. Costs for FY 2017 and FY 2018 are $0, with a total of $0 for To Complete.
- **Other Government Agencies**: No costs listed for FY 2015 and FY 2016. Costs for FY 2017 and FY 2018 are $0, with a total of $0 for To Complete.
- **Software**: Costs for FY 2015 and FY 2016 are $0, with a cost of $14.571 for FY 2017 and $0 for FY 2018. Total cost is $65,315.
- **Training Devices**: Costs for FY 2015 and FY 2016 are $0, with a cost of $26.181 for FY 2017 and $0 for FY 2018. Total cost is $78,295.
- **Support Equipment (Maint Shelter)**: Costs for FY 2015 and FY 2016 are $0, with a cost of $26.181 for FY 2017 and $0 for FY 2018. Total cost is $121,175.
- **Modifications**: Costs for FY 2015 and FY 2016 are $0, with a cost of $10.169 for FY 2017 and $0 for FY 2018. Total cost is $231,286.
- **Other Weapons System**: Costs for FY 2015 and FY 2016 are $0, with a cost of $0.203 for FY 2017 and $0 for FY 2018. Total cost is $59,955.
- **Ground Base Sense and Avoid (GBSAA)**: Costs for FY 2015 and FY 2016 are $0, with a cost of $0.203 for FY 2017 and $0 for FY 2018. Total cost is $59,955.
- **Total Recurring Cost**: $232,321 for FY 2015, $0 for FY 2016, $14,000 for FY 2017, and $100,334 for FY 2018. Total To Complete is $2,862,490.
- **Total Flyaway Cost**: $232,321 for FY 2015, $0 for FY 2016, $14,000 for FY 2017, and $100,334 for FY 2018. Total To Complete is $2,862,490.
- **Gross Weapon System Cost**: $232,321 for FY 2015, $0 for FY 2016, $14,000 for FY 2017, and $100,334 for FY 2018. Total To Complete is $2,862,490.
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**  
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

**P-1 Line Item Nomenclature:**  
A00005 - MQ-1 UAV

**Item Nomenclature:**  
A00005 - MQ-1 UAV

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- All Prior Years Deliveries: 26
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**Aircraft**

All Prior Years Deliveries: 26

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Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

P-1 Line Item Nomenclature: A00005 - MQ-1 UAV

Item Nomenclature: A00005 - MQ-1 UAV

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*"A" in the Delivery Schedule indicated the Contract Award Date.*

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:

(I) BASE

(II) BASE

(III) BASE
**Resource Summary**

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* (The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Program Elements for Code B Items:**

- Initial Spares ($ in Millions)
  - FY 2013: -
  - FY 2014: -
  - FY 2015: -
  - FY 2016: -
  - FY 2017: -
  - FY 2018: -

- Flyaway Unit Cost (Units in Thousands)
  - FY 2013: -
  - FY 2014: -
  - FY 2015: -
  - FY 2016: -
  - FY 2017: -
  - FY 2018: -

- Gross/Weapon System Unit Cost (Units in Thousands)
  - FY 2013: 32,925.600
  - FY 2014: 35,500.000
  - FY 2015: 35,500.000
  - FY 2016: -
  - FY 2017: -
  - FY 2018: -

**Item Schedule**

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* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

**Description:**

AH-64 Apache New Build is based on the AH-64E Reman program which is an aircraft remanufacture program that refurbishes aging Longbow Apaches to extend their service life and upgrades the aircraft with updated technologies and performance enhancements to keep the Apache viable throughout its lifecycle. While AB3A remanufactures aircraft in production, AB3B assembles all new components resulting in completely new aircraft at the end of the production process. New aircraft fill shortages in the Apache fleet due to combat losses.
UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

Date: May 2013

P-1 Line Item Nomenclature:
A05133 - AH-64 Apache Block IIIB New Build

Program Elements for Code B Items:

Justification:
The current AH-64E New Build Acquisition Program Baseline (APB) procurement objective is 56 aircraft. The 8 Base aircraft procured in FY13 will support an increase in the training base capacity. The Congress added two (2) additional War Replacement Aircraft (WRA) to the base FY13 procurement. The Congressional plus-up WRAs are not included in the 56 New Build aircraft for the additional CAB and the training base increase. A new build MTADS/PNVS system will be procured and provided with each WRA. Other associated Government Furnished Equipment (FCR, M-RFI, REU, and UTA) will be procured and provided in accordance with the basis of issue plan. The remaining 48 aircraft will fill shortages due to the establishment of a new heavy Active Component Combat Aviation Brigade (CAB) in CY2014. Advanced procurement of those aircraft begins in FY19.

FY 14 OCO procurement dollars in the amount of $142.000M will procure Four (4) War Replacement Aircraft (WRA). The WRA replace Block II combat losses but since the Block II production has ended, then the WRA are built as AH64E New Build aircraft. The WRA are not included in the 56 New Build aircraft for the additional CAB and the training base increase. A new build MTADS/PNVS system will be procured and provided with each WRA. Other associated Government Furnished Equipment (FCR, M-RFI, REU, and UTA) will be procured and provided in accordance with the basis of issue plan.

Post Nunn McCurdy re-certification (June 2010). This program was restructured from the single AH-64 Block III (A05111) into two separate programs, AH-64 Apache Block IIIA Reman (A05111) and AH-64 Apache Block IIIB New Build (A05133).

All COMPO 1 Active
### Resource Summary

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**Note:**
- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Item Nomenclature (Item Number - Item Name, DODIC):**
A05133 - AH-64 Apache Block IIIB New Build

**Date:** May 2013

#### P-1 Line Item Nomenclature:
A05133 - AH-64 Apache Block IIIB New Build

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#### P-5 Remarks:

Continuing

Continuing
Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Date:** May 2013

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**Remarks:**
Major CFE cost drivers include the Fuselage, Transmission, and Composite Main Rotor Blades. GFE includes engines, EGIs, REUs, and UTAs. Other Cost includes Support Equipment, Peculiar Ground Support (PGSE), and Government In-House.
**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Date:** May 2013

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<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

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**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
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**Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

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<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

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**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

P-1 Line Item Nomenclature:
A05133 - AH-64 Apache Block IIIB New Build

Item Nomenclature:
A05133 - AH-64 Apache Block IIIB New Build

Date: May 2013

Production Rates (Each / Month)

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<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
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<tbody>
<tr>
<td>1</td>
<td>The Boeing Company - Mesa</td>
<td>48.00</td>
<td>84.00</td>
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Procurement Leadtime (Months)

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<th>ALT After Oct 1</th>
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<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<tr>
<td>-</td>
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<td>-</td>
<td>6</td>
<td>12</td>
<td>18</td>
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</table>

Remarks:
The reduction in the Economical Production Rate of 96 was a number carried forward from prior year submission. 7 aircraft per month (84) is the capacity at Full Rate Production assuming a 1-8-5 shift. This requirement is driven primarily by the production rate associated with current fuselage tooling capabilities. In order to increase the 1-8-5 (single shift) production rate, additional tooling must be procured. The Min 48 A/C per year is based upon Combined Remanufacture and New Build quantities.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
UNCLASSIFIED

Exhibit P-40 Advance Procurement, Budget Item Justification Sheet: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

P-1 Line Item Nomenclature:
A05133 - AH-64 Apache Block IIIB New Build

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

Resource Summary

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<th>FY 2013*</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO**</th>
<th>FY 2014 Total</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018 To Complete</th>
<th>Total</th>
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<tbody>
<tr>
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<td>-</td>
<td>-</td>
<td>573,728</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>84.264</td>
<td>146.121</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>84.264</td>
<td>146.121</td>
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<td>-</td>
<td>-</td>
<td>804,113</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>84.264</td>
<td>146.121</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>804,113</td>
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</table>

Initial Spares ($ in Millions)

Flyaway Unit Cost (Units in Thousands)

Gross/Weapon System Unit Cost (Units in Thousands)

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Description:
AH-64E Apache New Build is based on the AH-64E Apache Reman program which is an aircraft remanufacture program that refurbishes aging Longbow Apaches to extend their service life and upgrades the aircraft with updated technologies and performance enhancements to keep the Apache viable throughout its lifecycle. While AB3A remanufactures aircraft in production, AB3B assembles all new components resulting in completely new aircraft at the end of the production process. New aircraft fill shortages in the Apache fleet due to combat losses.

Secondary Distribution

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<tr>
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Item Schedule

| Item Nomenclature* | Exhibits | ID CD | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
|--------------------|----------|------|-----------------|------------|-----------------|-----------------|------------|-----------------|-----------------|------------|-----------------|-----------------|------------|-----------------|-----------------|
| A05133 - AH-64 Apache Block IIIB New Build | P10 | - | 0 | - | - | 84.264 | 8 | 146.121 | - | - | - | - | - |
| Total Gross/Weapon System Cost | - | - | 84.264 | 146.121 | - | - | - | - | - | - | - | - |

LI A05133 - AH-64 Apache Block IIIB New Build

Army
**Exhibit P-40 Advance Procurement, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05133 - AH-64 Apache Block IIIB New Build

**Date:** May 2013

**ID Code** (A=Service Ready, B=Not Service Ready):

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**MDAP/MAIS Code(s):**

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**Justification:**

The current AH-64E Apache New Build Acquisition Program Baseline (APB) procurement objective is 56 aircraft. The 8 Base aircraft procured in FY13 will support an increase in the training base capacity. There are not any FY14 Base Advance Procurement dollars. The remaining 48 aircraft will fill shortages due to the establishment of a new heavy Active Component Combat Aviation Brigade (CAB) in CY2014. Advanced procurement of those aircraft begins in FY19.

Post Nunn McCurdy re-certification (June 2010), this program was restructured from the single AH-64 Block III (A05111) into two separate programs, AH-64 Apache Block IIIA Reman (A05111) and AH-64 Apache Block IIIB New Build (A05133).

### Item Schedule

<table>
<thead>
<tr>
<th>Item Nomenclature*</th>
<th>Exhibits CD</th>
<th>Unit Cost ($K)</th>
<th>Qty (Each)</th>
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<td>Total Gross/Weapon System Cost</td>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Exhibit P-10, Advance Procurement Requirements Analysis (page 1 - Budget Funding Justification): PB Amended 2014  Date: May 2013

Army

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

P-1 Line Item Nomenclature: A05133 - AH-64 Apache Block IIIB New Build

Item Nomenclature (Item Number, Item Name): A05133 - AH-64 Apache Block IIIB New Build

ID Code (A=Service Ready, B=Not Service Ready): 

First System (2014) Award Date: July 2009

First System (2014) Completion Date: November 2011

Interval Between Systems: 1 Months

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<th>FY 2013 ($ M )</th>
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<th>FY 2016 ($ M )</th>
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<th>FY 2018 ($ M )</th>
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End Item Quantity

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<th>FY 2014 (Each)</th>
<th>FY 2015 (Each)</th>
<th>FY 2016 (Each)</th>
<th>FY 2017 (Each)</th>
<th>FY 2018 (Each)</th>
<th>To Complete (Each)</th>
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### Exhibit P-10, Advance Procurement Requirements Analysis

**Budget Funding Justification:** PB Amended 2014  
**Date:** May 2013  
**Army**

#### Appropriation / Budget Activity / Budget Sub Activity:
- 2031A: Aircraft Procurement, Army  
- BA 01: Aircraft  
- BSA 20: Rotary

#### P-1 Line Item Nomenclature:
- A05133 - AH-64 Apache Block IIIB New Build

#### Item Nomenclature (Item Name, Item Number):
- A05133 - AH-64 Apache Block IIIB New Build

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<td>QPA (Each)</td>
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AH-64E Apache New Build
**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A02345 - Kiowa Warrior WRA

**Date:** May 2013

### Resource Summary

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<td>163,800</td>
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<tr>
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<td>460,500</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

#### Initial Spares ($ in Millions)

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<tbody>
<tr>
<td>Gross/Weapon System Cost Unit Cost (Units in Thousands)</td>
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<td>12,533.333</td>
<td>11,493.750</td>
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<td>11,700.000</td>
<td>11,700.000</td>
<td>-</td>
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<td>11,808</td>
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</table>

### Description:

The Kiowa Warrior is a two-seat, single-engine, observation, scout/attack helicopter with four main rotor blades. It utilizes a thermal-imaging system and a laser rangefinder/designator in a mast-mounted sight situated above the main rotor system. The aircraft is equipped with a variety of weapon systems including: HELLFIRE, 2.75-inch rockets, and a .50-caliber machine gun. The aircraft operates autonomously and teamed with other manned and unmanned aerial systems at standoff ranges providing armed reconnaissance, command and control, and target acquisition/designation for Apache helicopters and other airborne weapons platforms in day, night, and adverse weather conditions.

### Secondary Distribution

#### Item Schedule

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</thead>
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<td>A02345 - Kiowa Warrior WRA</td>
<td>P5, P5A, P21</td>
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<td>12,533.333</td>
<td>9</td>
<td>112,800</td>
<td>11,493.750</td>
<td>16</td>
<td>183,900</td>
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<tr>
<td>Total Gross/Weapon System Cost</td>
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<td>-</td>
<td>-</td>
<td>112,800</td>
<td>183,900</td>
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</tbody>
</table>

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

---

**Item Schedule**

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<thead>
<tr>
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<tr>
<td>A02345 - Kiowa Warrior WRA</td>
<td>P5, P5A, P21</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>12,533.333</td>
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<td>112,800</td>
<td>11,493.750</td>
<td>16</td>
<td>183,900</td>
</tr>
<tr>
<td>Total Gross/Weapon System Cost</td>
<td>-</td>
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<td>-</td>
<td>112,800</td>
<td>183,900</td>
<td>-</td>
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</tbody>
</table>

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary
P-1 Line Item Nomenclature: A02345 - Kiowa Warrior WRA

ID Code (A=Service Ready, B=Not Service Ready): Program Elements for Code B Items: Other Related Program Elements:

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

MDAP/MAIS Code(s):

Justification:

Procures Wartime Replacement Aircraft (WRA) lost during Overseas Contingency Operations (OCO) and returns the fleet to Army authorized levels for MTOE, TDA, and ORF of 368.

OCO funding will procure Wartime Replacement Aircraft (WRA) (in addition to FY 2010-2011 funds identified in OSIP 2-10-01-0118 in Kiowa Warrior AZ2200) for those lost during Overseas Contingency Operations. Bell Helicopter Textron Incorporated (BHTI) is producing cabins which will be delivered to Corpus Christi Army Depot (CCAD). CCAD will mount all remaining structure, equipment, and modifications which have been applied to the current fleet. CCAD will then conduct ground/flight test and acceptance of the aircraft.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

P-1 Line Item Nomenclature: A02345 - Kiowa Warrior WRA

Item Nomenclature (Item Number - Item Name, DODIC): A02345 - Kiowa Warrior WRA

<table>
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<th>FY 2013#</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
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<td>16</td>
<td>-</td>
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<td>14</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>112.800</td>
<td>183.900</td>
<td>-</td>
<td>163.800</td>
<td>163.800</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>-</td>
<td>112.800</td>
<td>183.900</td>
<td>-</td>
<td>163.800</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>-</td>
<td>112.800</td>
<td>183.900</td>
<td>-</td>
<td>163.800</td>
<td>163.800</td>
</tr>
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</table>

(Initial Spares ($ in Millions))

| Gross/Weapon System Unit Cost (Units in Thousands) | - | 12,533.333 | 11,493.750 | - | 11,700,000 | 11,700,000 |

(P-5 Remarks:

Secondary Distribution

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<tr>
<th>Army</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
<td>Quantity</td>
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<td>183.900</td>
<td>-</td>
<td>163,800</td>
<td>163,800</td>
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This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## All Prior Years

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<tr>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>Quantity</td>
<td>9</td>
<td>16</td>
<td>-</td>
<td>14</td>
</tr>
</tbody>
</table>

Total Obligation Authority | 112.800 | 183.900 | - | 163,800 | 163,800 |

(All Prior Years: FY 2012, FY 2013, FY 2014 Base, FY 2014 OCO, FY 2014 Total)
## Exhibit P-5A, Budget Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A02345 - Kiowa Warrior WRA

**Item Nomenclature:**
A02345 - Kiowa Warrior WRA

**Date:** May 2013

### Cost Elements

<table>
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<tr>
<th>O</th>
<th>C</th>
<th>O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td></td>
<td>BELL HELICOPTER TEXTRON INC / FORT WORTH, TEXAS</td>
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### Remarks:
Bell Helicopter Textron Incorporated (BHTI) will produce cabins in Amarillo, Texas and deliver to Corpus Christi Army Depot (CCAD) in Corpus Christi, Texas. CCAD will mount all remaining structure, equipment, and modifications which have been applied to the current fleet. CCAD will then conduct ground/flight test and acceptance of the aircraft. Unit cost reflects BHTI cabins only.

In FY2013 and beyond, Wartime Replacement Aircraft (WRA) cabins provided by BHTI will be 100% new (zero time), prior years were modified OH-58A cabins.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
- A02345 - Kiowa Warrior WRA

**Item Nomenclature:**
- A02345 - Kiowa Warrior WRA

**Date:** May 2013

#### Cost Elements (Units in Each)

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<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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<td><strong>BAL DUE AS OF 1 OCT</strong></td>
<td><strong>SERVICE</strong></td>
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<td><strong>BHTI - Cabins</strong></td>
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<td>ARMY (I)</td>
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<td>2014</td>
<td>ARMY (VI)</td>
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<th><strong>BHTI - Cabins</strong></th>
<th><strong>FY</strong></th>
<th><strong>QTY</strong></th>
<th><strong>PROC</strong></th>
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<tr>
<td></td>
<td><strong>O C R O #</strong></td>
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<tr>
<td></td>
<td>M</td>
<td>C</td>
<td>O</td>
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UNCLASSIFIED

LI A02345 - Kiowa Warrior WRA

Army

UNCLASSIFIED

Page 5 of 8

P-1 Line #10
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

P-1 Line Item Nomenclature: A02345 - Kiowa Warrior WRA

Item Nomenclature: A02345 - Kiowa Warrior WRA

Date: May 2013

UNCLASSIFIED
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
- A02345 - Kiowa Warrior WRA

**Item Nomenclature:**
- A02345 - Kiowa Warrior WRA

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<th>Cost Elements (Units in Each)</th>
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<td>OCOTNOPTVCGYNLGP</td>
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<td>2</td>
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<td>ARMY (V)</td>
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<td>ARMY (V)</td>
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- BHTI - Cabins

<table>
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<td>CONEAEAPAUUUECOEAEAPAUUUUEA</td>
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<td>TVCNBRRYNLGP</td>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A02345 - Kiowa Warrior WRA

**Item Nomenclature:**
A02345 - Kiowa Warrior WRA

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<th>MFR #</th>
<th>MFR Name - Location</th>
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<th>1-8-5</th>
<th>MAX</th>
<th>Initial ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALMC Prior to Oct 1</th>
<th>ALMC After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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</tbody>
</table>

*A* in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:

(IV) OCO
(V) OCO
(VI) OCO
The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. As the Army's only heavy lift helicopter, the CH-47F Improved Cargo helicopter is an essential component of the Army Future Force. The mission of the CH-47F is to transport troops (including air assault), supplies, weapons, and other cargo in general support operations. The CH-47F is vital to Overseas Contingency Operations and Homeland Security needs of our nation. Secondary missions include medical evacuation, aircraft recovery, parachute drops, disaster relief, and search and rescue. These aircraft are fielded to heavy helicopter companies and Special Operations Aviation. The CH-47F is expected to remain the Army's heavy lift helicopter until at least the 2038 timeframe. The CH-47F ReNew Program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. Key product improvements integrate a new-machined airframe, a performance capability, Common Avionics Architecture System, Air Warrior, Common Missile Warning System, enhanced air transportability, Digital Advance Flight Control System (DAFCS) and an Extended Range Fuel System II for self-deployment missions. The CH-47F program extends the Army's Chinook fleet's useful life 20 years incorporating reliability and maintainability improvements including airframe tuning for vibration reduction, corrosion protection, digital source collectors, Transportable Flight Proficiency Simulators, Cargo Floor Handling System, Ballistic Protection System, Transformation Sets, Kits and Outfits, Aviation Training Devices, M240 Window/Door Gun Mounts and an automated maintenance program with a 400-hour phase interval. The ReNew program rebuilds and replaces CH-47Ds and 61 Special Operations Aviation MH-47s to the CH-47F/MH-47G configuration. The New Build program procures all CH-47F New Build aircraft and 8 Special Operations Aviation MH-47G New Build aircraft. The CH-47 PM will field and train Combat Aviation Brigades (CABs) using a New Equipment Training team. The CH-47 is currently in the fifth year of a five year multi-year procurement (MYP) program and is working towards awarding a second MYP in FY13.
Justification:

FY14 base procurement dollars in the amount of $900.026 million will procure 6 new build aircraft and 22 renew aircraft.
FY14 OCO procurement dollars in the amount of $386.00 million will procure 10 new build War Replacement Aircraft (WRA).

Note: The 7 MH-47Gs are not part of the planned FY13-17 Multiyear Procurement.
Error in Quantity for FY12 procurement quantity: Total should be 48 aircraft with 33 new build and 15 renew.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

### P-1 Line Item Nomenclature:
A05101 - CH-47 Helicopter

### Item Nomenclature (Item Number - Item Name, DODIC):
A05008 - CH-47 NEW BUILD

### Resource Summary

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</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>220.973</td>
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<td>147.200</td>
<td>396.700</td>
<td>0.200</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>2,691.633 870.399 756.441</td>
<td>220.973</td>
<td>106.973</td>
<td>147.200</td>
<td>396.700</td>
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<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>2,691.633 870.399 756.441</td>
<td>220.973</td>
<td>106.973</td>
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<td>396.700</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>2,691.633 870.399 756.441</td>
<td>220.973</td>
<td>106.973</td>
<td>147.200</td>
<td>396.700</td>
<td>0.200</td>
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</tr>
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FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
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<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05101 - CH-47 Helicopter

**Item Nomenclature (Item Number - Item Name, DODIC):**
A05008 - CH-47 NEW BUILD

---

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<th>FY 2013</th>
<th>FY 2014 Base</th>
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<th>FY 2014 Total</th>
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<td>Quantity (Each)</td>
<td>Total Cost ($M)</td>
<td>Unit Cost ($K)</td>
<td>Quantity (Each)</td>
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**P-5 Remarks:**

**Secondary Distribution:**

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**Date:** May 2013

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**UNCLASSIFIED**

---

**LI A05101 - CH-47 Helicopter**
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05101 - CH-47 Helicopter

**Item Nomenclature (Item Number - Item Name, DODIC):**
A05008 - CH-47 NEW BUILD

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**Date:** May 2013
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<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05101 - CH-47 Helicopter

**Item Nomenclature:**
A05008 - CH-47 NEW BUILD

**Date:** May 2013

<table>
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<th>Fiscal Year 2012</th>
<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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**P-1 Line #13**
## Cost Elements (Units in Each)

| MCR | FY   | SERVICE | PROC | QTY | ACCEP PRIOR TO 1 OCT 2013 | BAL DUE AS OF 1 OCT | O | C | E | A | P | A | U | U | U | E | C | O | E | A | E | A | P | A | U | U | U | E | A | B |
|     |      |         |      |     |                           |                    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1   | 2012 | ARMY    | 32   | -   | 32                         | -                  |   |   |   |   |   | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 1 |     |     |     |     |     |     |     |     |     |     |     |     |
| 1   | 2013 | ARMY    | 25   | -   | 25                         | -                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 25 |
| 1   | 2014 | ARMY(VII) | 16   | -   | 16                         | -                  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   | A | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | 16 |

### Airframes/CFE

|     |威尼斯| 1 | 2012 | ARMY | 32 | - | 32 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 1 |
|-----|-------|---|------|------|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2013| ARMY  | 25| -    | 25   | -  | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2014| ARMY(VII) | 16| -   | 16   | -  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 16 |

### P-1 Line Item Nomenclature:
- A05101 - CH-47 Helicopter

### Item Nomenclature:
- A05008 - CH-47 NEW BUILD
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05101 - CH-47 Helicopter

**Item Nomenclature:**
A05008 - CH-47 NEW BUILD

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<th>ALT After Oct 1</th>
<th>Initial</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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*"A" in the Delivery Schedule indicated the Contract Award Date.*

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

**Service/Agency Suffixes:**

(VII) Base
### Description:
The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy lift transport helicopter with a useful load of up to 25,000 pounds. The ReNew program will provide a more reliable, less costly to operate aircraft compatible with Joint digital connectivity requirements in the Future Force. The ReNew Program produces an identical aircraft as the CH-47F New Build program with the exception of dynamic components including engine, transmission and drive train. During production, the aircraft receives a new airframe, cockpit, wiring and plumbing.
### Exhibit P-3A, Individual Modification

**Modification Nomenclature:**
A05101 - CH-47 Helicopter

**Models of Systems Affected:**
CH-47

**Type Modification:**

**Related RDT&E PEs:**

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| **Recurring** | | | | | | | | | | | |
| Recurring Production (Mods) | 0 / 1.100 | 0 / 0.200 | 11 / 912.125 | - / - | - / - | - / - | - / - | - / - | - / - | - / - | - / - |
| Other Flyaway | 0 / 54.364 | - / 7.600 | - / 40.842 | - / 17.468 | - / 14.223 | - / 20.136 | - / 10.742 | - / 1.100 | - / - | - / - | - / - |
| Training | 0 / 0.000 | - / 29.800 | - / 10.742 | - / 24.808 | - / 6.452 | - / - | - / - | - / - | - / - | - / - | - / - |
| Support Equipment | 0 / 0.000 | - / 29.800 | - / 10.742 | - / 24.808 | - / 6.452 | - / - | - / - | - / - | - / - | - / - | - / - |

**Total Recurring:**
25 / 584.371
13 / 435.319
19 / 671.851
22 / 664.023
- / -
22 / 664.023
26 / 768.099
27 / 777.746
27 / 846.745
2 / 164.018
45 / 952.213
206 / 5,864.385

**Total, CH-47 D to F Conversion:**
25 / 584.371
13 / 435.319
19 / 671.851
22 / 664.023
- / -
22 / 664.023
26 / 768.099
27 / 777.746
27 / 846.745
2 / 164.018
45 / 952.213
206 / 5,864.385

**Total Procurement, All Modifications:**
25 / 584.371
13 / 435.319
19 / 671.851
22 / 664.023
- / -
22 / 664.023
26 / 768.099
27 / 777.746
27 / 846.745
2 / 164.018
45 / 952.213
206 / 5,864.385

| **Subtotal Procurement and Support** | 584.371 | 435.319 | 671.851 | 664.023 | - | 664.023 | 768.099 | 777.746 | 846.745 | - | 164.018 | 952.213 | 5,864.385 |
| **Total Procurement and Support** | 584.371 | 435.319 | 671.851 | 664.023 | - | 664.023 | 768.099 | 777.746 | 846.745 | 164.018 | 952.213 | 5,864.385 |

**CH-47 D to F Conversion Installation Cost:**
0 / 0.000
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -

**Total Installation Cost:**
0 / 0.000
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -
- / -

**Total Cost (Procurement + Support + Installation):**
584.371
435.319
671.851
664.023
- | 664.023 | 768.099 | 777.746 | 846.745 | 164.018 | 952.213 | 5,864.385
### Installation Schedule

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<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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**UNCLASSIFIED**

**Exhibit P-40 Advance Procurement, Budget Item Justification Sheet:** PB Amended 2014 Army  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**  
A05101 - CH-47 Helicopter

**MDAP/MAIS Code(s):**  
A05101 - CH-47 Helicopter

### System Cost

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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>120.956</td>
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<td>98.376</td>
<td>-</td>
<td>98.376</td>
<td>102.361</td>
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<td>665.517</td>
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<tr>
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<td>98.376</td>
<td>102.361</td>
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<td>8.707</td>
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<td>-</td>
<td>665.517</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions):** -

**Flyway Unit Cost (Units in Thousands):** -

**Gross/Weapon System Unit Cost ($ in Millions):** -

**Description:**

The CH-47F Chinook is a twin-turbine, tandem-rotor, heavy-lift transport helicopter with a useful load of up to 25,000 pounds. The CH-47F Improved Cargo Helicopter is an essential component of the Army Future Force. The CH-47F program fills the Army's Aviation Transformation Chinook requirement. Key product improvements integrate the CH-47F Common Avionics Architecture System (CAAS) digital cockpit which meets the Net-Ready Key Performance Parameters (KPPs) and also includes a digital data bus that permits installation of enhanced communication and navigation equipment for improved situational awareness, mission performance, and survivability. The new digital cockpit incorporates all new airframe components and modifies the aircraft to reduce vibration. New airframe structural components and modifications will reduce harmful vibrations, improving operation and support (O&S) efficiency and crew endurance. Other airframe modifications reduce by 60 percent the time required for aircraft tear down and build-up after C-5/C-17 deployment. These modifications significantly enhance the Chinook's strategic deployment capability.

---

**Item Schedule**

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<tr>
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<th>ID CD</th>
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**Total Gross/Weapon System Cost:** 149.637

**To Complete**

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**To Complete:** 331 665.517

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**LI A05101 - CH-47 Helicopter**  
**UNCLASSIFIED**  
**Page 1 of 4**  
P-1 Line #14
**Exhibit P-40 Advance Procurement, Budget Item Justification Sheet:** PB Amended 2014 Army  

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**  
A05101 - CH-47 Helicopter

**ID Code** (A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:**

**Other Related Program Elements:**

**MDAP/MAIS Code(s):**

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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY 14 Base procurement dollars in the amount of $98.4 million will procure avionics and airframe advance procurement.

In accordance with section 1815 of the FY 2008 National Defense Authorization Act (P.L.110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses and providing military support to civil authorities.
**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20:
Rotary

**P-1 Line Item Nomenclature:**
A05101 - CH-47 Helicopter

**Item Nomenclature (Item Number, Item Name):**
A05101 - CH-47 Helicopter

**ID Code (A=Service Ready, B=Not Service Ready):**

**First System (2014) Award Date:**
December 2003

**First System (2014) Completion Date:**
December 2006

**Interval Between Systems:**
2 Months

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<th>FY 2014 (Each)</th>
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Exhibit P-10, Advance Procurement Requirements Analysis (page 2 - Budget Funding Justification): PB Amended 2014  Date: May 2013

**Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 20: Rotary

**P-1 Line Item Nomenclature:**
A05101 - CH-47 Helicopter

**Item Nomenclature (Item Name, Item Number):**
A05101 - CH-47 Helicopter

**ID Code** (A=Service Ready, B=Not Service Ready):

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**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

**P-1 Line Item Nomenclature:** A11301 - SATURN ARCH (MIP)

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**Resource Summary**

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

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**Flyaway Unit Cost (Units in Thousands)**

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**Description:**

The Saturn Arch and Desert Owl aircraft are Airborne Intelligence, Surveillance and Reconnaissance (AISR) aircraft that support a suite of imaging sensors designed to provide persistent surveillance to accomplish day and night image collection and exploitation of Improvised Explosive Devices (IEDs) in designated Named Areas of Interest (NAIs).

The Saturn Arch and Desert Owl systems are under the operational control of the Task Force Observe, Detect, Identify, and Neutralize (TF ODIN), Afghanistan.

**Secondary Distribution**

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**Item Schedule**

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| Total Gross/Weapon System Cost | - | - | - | - | - | - | - | - | - | - | - | 48,000 | 48,000 |

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012**

**This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013**

**LI A11301 - SATURN ARCH (MIP)**

**Army**

**UNCLASSIFIED**

Page 1 of 6

P-1 Line #15

49
**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Date:** May 2013

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**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY14 OCO procurement dollars of $48.000M supports the procurement (lease buy-out) of (4) Special Equipment Mission Aircraft (SEMA). The Saturn Arch and Desert Owl aircraft are currently a contractor owned & operated system. Under the Army’s Airborne Intelligence, Surveillance and Reconnaissance (AISR) 2020 strategy, the Government will procure these aircraft.

All COMPO 1 Active
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

P-1 Line Item Nomenclature: A11301 - SATURN ARCH (MIP)

Item Nomenclature (Item Number - Item Name, DODIC): A11301 - SATURN ARCH (MIP)

Date: May 2013

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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Gross/Weapon System Unit Cost (Units in Thousands) - - - - - -

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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FY 2012 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

**P-1 Line Item Nomenclature:**
A11301 - SATURN ARCH (MIP)

**Item Nomenclature:**
A11301 - SATURN ARCH (MIP)

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### Cost Elements (Units in Each)

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**Fixed Wing Aircraft Procurement**

- ✓ 2014 ARMY
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- 4
- 4

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**Item Nomenclature:**

- A11301 - SATURN ARCH (MIP)
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2031A: Aircraft Procurement, Army / BA 01: Aircraft / BSA 10: Fixed Wing

**P-1 Line Item Nomenclature:**
A11301 - SATURN ARCH (MIP)

**Item Nomenclature:**
A11301 - SATURN ARCH (MIP)

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Department of Defense
Fiscal Year (FY) 2014 Amended Budget Estimate
May 2013

Army
Justification Book
Missile Procurement, Army
MISSILE PROCUREMENT, ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of missile equipment, including ordnance, ground handling equipment, spare parts, and accessories; specialized equipment and training devices; expansion of public and private plants, including the land necessary therefor, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purpose, $128,645,000 to remain available for obligation until September 30, 2016.
UNCLASSIFIED
Army • Amended Budget Estimate FY 2014 • Procurement

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## Line Item Table of Contents (by Appropriation then Line Number)

### Appropriation 2032A: Missile Procurement, Army

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<td>Plus CY Advance Procurement ($ in Millions)</td>
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*FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

**This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**
The Laser HELLFIRE II system family of air-to-ground missiles (all variants) provides attack helicopters and unmanned aircraft systems (UAS) with point-target precision strike capability to defeat heavy, advanced armor, individual hard point and non-traditional targets. HELLFIRE II missiles use a semi-active laser terminal guidance and are the primary armament of the AH-64 Apache, OH-58 Kiowa Warrior, Army UAS and Special Operations aircraft. The HELLFIRE II includes Electro-Optical Countermeasure capability, warhead improvements and an updated electronic fuze. The AGM-114R (Romeo) HELLFIRE II will be the single variant that replaces all other HELLFIRE II missile configurations (K/N/M/P). HELLFIRE II Romeo procurement funding supports the entire HELLFIRE II system, to include resolution of obsolescence, safety, reliability, weapon integration activities, test sets, engineering changes and production issues. This missile will be compatible on all current force UAS and rotary wing platforms.

**Secondary Distribution**

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**Item Schedule**

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*P-1 Line #3
Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface

P-1 Line Item Nomenclature:
C70000 - Hellfire Sys Summary

MDAP/MAIS Code(s):

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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
The HELLFIRE Product Office is the procurement agent for all services, for all variants of the HELLFIRE missile.
FY 14 Base procurement dollars in the amount of $4.464 million provides government program management and production engineering support.
FY 14 OCO procurement dollars in the amount of $54.000 million procures 430 Hellfire II AGM-114 Romeo missiles. Procured missiles will replace missiles expended in combat operations.
The Army intends to convert any price advantage created through contract negotiations, other service procurement and/or foreign military sales to increase the Army procurement of Hellfire missiles.

"In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
UNCLASSIFIED

Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System

P-1 Line Item Nomenclature: C70000 - Hellfire Sys Summary

Item Nomenclature (Item Number - Item Name, DODIC): C70100 - LASER HELLFIRE MSL (BASIC/IHW/HFII)

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) - - - - - - - - - - -
Gross/Weapon System Unit Cost (Units in Thousands) - 120.139 189.447 - 125.581 135.963 - - - - -

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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### Cost Elements

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LI C70000 - Hellfire Sys Summary

UNCLASSIFIED

UNCLASSIFIED

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P-1 Line #3
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System

**P-1 Line Item Nomenclature:**
C70000 - Hellfire Sys Summary

**Item Nomenclature (Item Number - Item Name, DODIC):**
C70100 - LASER HELLFIRE MSL (BASIC/IHW/HFII)

**Date:** May 2013

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**P-5 Remarks:**

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### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 20: Air-To-Surface Missile System

**P-1 Line Item Nomenclature:**
C70000 - Hellfire Sys Summary

**Item Nomenclature:**
C70100 - LASER HELLFIRE MSL (BASIC/IHW/HFII)

**Date:** May 2013

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**Remarks:**
Firm Fixed Price (FFP)
The production unit cost is based on all Services' base and OCO quantity requirements known at this time. Quantities include United States Air Force procurement, the United States Navy procurement of tactical missiles, and the United States Army procurement of Hellfire II AGM-114R missiles.
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### P-21 Line Item Nomenclature:
C70000 - Hellfire Sys Summary

### Item Nomenclature:
C70100 - LASER HELLFIRE MSL
(BASIC/IHW/HFII)

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- ✓ 1 2014 | AF | 406 | - | 406 | - | - | - | - | - | - | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 32 | 32 | - | - |
- ✓ 1 2014 | TOTAL | 1,117 | - | 1,117 | - | - | - | - | - | - | 94 | 94 | 94 | 94 | 93 | 93 | 93 | 93 | 92 | 90 | - | - | - | - |

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- ✓ 1 2014 | NAVY | 281 | - | 281 | - | - | - | - | - | - | 24 | 24 | 24 | 24 | 24 | 24 | 23 | 23 | 23 | 23 | - | - | - | - |
- ✓ 1 2014 | AF | 406 | - | 406 | - | - | - | - | - | - | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 34 | 32 | 32 | - | - |
- ✓ 1 2014 | TOTAL | 1,117 | - | 1,117 | - | - | - | - | - | - | 94 | 94 | 94 | 94 | 93 | 93 | 93 | 93 | 92 | 90 | - | - | - | - |

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### Date: May 2013

- [P-1 Line Item Nomenclature: C70000 - Hellfire Sys Summary](#)
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† Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
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<td>153.532</td>
<td>178.310</td>
<td>168.584</td>
<td>192.381</td>
<td>1,989.762</td>
<td>5,319.509</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>333.167</td>
<td>239.232</td>
<td>237.216</td>
<td>39.045</td>
<td>276.261</td>
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<td>168.584</td>
<td>192.381</td>
<td>1,989.762</td>
<td>5,319.509</td>
</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
- # This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Description:

Guided Multiple Launch Rocket System (GMLRS) rockets are surface-to-surface artillery rockets fired from the Multiple Launch Rocket System (MLRS) and High Mobility Artillery Rocket System (HIMARS) launchers. Dual GMLRS rockets provide 24/7, all-weather precision fires to engage both area and point targets at short, medium, and long ranges. The U.S. Marine Corps also procures GMLRS rockets through the Army project office.

The GMLRS Program consists of three separate increments. GMLRS Purpose Improved Conventional Munition (DPICM) was the first increment. It is a cluster munition that replaced the shorter range MLRS rockets to engage area or imprecisely located targets. GMLRS DPICM Production was terminated in response to the June 2008 Department of Defense (DoD) Cluster Munitions Policy. GMLRS Unitary is the second increment that utilizes a 200 lb high explosive warhead to engage point targets with limited collateral damage. GMLRS Unitary is currently in its fifth year of full rate production through annual production contracts. GMLRS Alternative Warhead (AW) is being developed as a non-cluster munition to replace GMLRS DPICM. The Program is currently in the EMD Phase and scheduled to enter full rate production in FY15. The GMLRS AW rocket is 90% common with the Unitary variant. The U.S. Army continues to execute the GMLRS Program with no major cost, schedule, or performance issues.

GMLRS Procurement funding (C64400) includes GMLRS full rate production (C64400) as well as the procurement of Multiple Launch Rocket System (MLRS) Common Test Devices (C65406).

### Secondary Distribution

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<thead>
<tr>
<th></th>
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<td>276.261</td>
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</table>
**Justification:**

FY 2014 Base procurement dollars in the amount of $236.783 million supports the acquisition of 1788 GMLRS Unitary rockets for the United States Army and procures the support and equipment for maintenance and obsolescence issues with the fielded Multiple Launch Rocket System Common Test Device (MCTD) Trainers hardware and software. The Army Procurement Objective is 43560 Rockets.

FY 2014 OCO procurement dollars in the amount of $39.045 million supports the acquisition of 383 GMLRS Unitary rockets for the United States Army to replace rockets expended in support of overseas contingency operations.

FY 2014 Base procurement dollars in the amount of $.433 million supports the acquisition of support and equipment for maintenance and obsolescence issues with the fielded Multiple Launch Rocket System Common Test Device (MCTD) Trainers hardware and software.

The column on the Tactical GMLRS line in the P-5 for base rockets includes base rocket quantity cost and other production contract CLINs such as Army Integrated Logistic Support (ILS) and Obsolescence.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

<table>
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<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>1,788</td>
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<td>2,171</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>236.783</td>
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*The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.*

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<th>All Prior Years</th>
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<th>FY 2014 Base</th>
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<td>236.783</td>
<td>39.045</td>
<td>275.828</td>
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

**MDAP/MAIS Code:** 260

**P-1 Line Item Nomenclature:** C64400 - Guided MLRS Rocket (GMLRS)

**Item Nomenclature (Item Number - Item Name, DODIC):**
C65404 - GUIDED MLRS ROCKET (GMLRS)

**Date:** May 2013

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>ID</th>
<th>CD</th>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
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<th>FY 2014 Total</th>
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<td>Total Cost ($ M)</td>
<td>Unit Cost ($ K)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($ K)</td>
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<td>1,786.527</td>
<td>333.167</td>
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<td>39.045</td>
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<td>Gross Weapon System Cost</td>
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<td>1,786.527</td>
<td>333.167</td>
<td>238.805</td>
<td>236.783</td>
<td>39.045</td>
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**P-5 Remarks:**

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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Army</td>
<td>Quantity</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,194</td>
<td>1,794</td>
<td>1,788</td>
<td>383</td>
<td>2,171</td>
</tr>
<tr>
<td>Total Obligation Authority</td>
<td>333.167</td>
<td>238.805</td>
<td>236.783</td>
<td>39.045</td>
<td>275.828</td>
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**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

**P-1 Line Item Nomenclature:**
C64400 - Guided MLRS Rocket (GMLRS)

**Item Nomenclature:**
C65404 - GUIDED MLRS ROCKET (GMLRS)

<table>
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<tr>
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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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</table>

**Remarks:**
Lockheed Martin is currently the industry source that is both facilitated and qualified to produce the GMLRS rocket.

*Sole Source/Firm Fixed Price
**Aviation and Missile Command, Redstone Arsenal, Alabama
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

P-1 Line Item Nomenclature:
C64400 - Guided MLRS Rocket (GMLRS)

Item Nomenclature:
C65404 - GUIDED MLRS ROCKET (GMLRS)

Cost Elements
(Units in Each)
<table>
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<th>Fiscal Year 2012</th>
<th>Calendar Year 2012</th>
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<th>Calendar Year 2013</th>
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<td>BAL DUE AS OF 1 OCT</td>
<td>OPR PRIOR TO 1 OCT</td>
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<tr>
<td>Tactical GMLRS</td>
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<td></td>
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</tr>
<tr>
<td>1 2012 ARMY</td>
<td>3,194</td>
<td>-</td>
<td>3,194</td>
</tr>
<tr>
<td>1 2012 • MC</td>
<td>96</td>
<td>-</td>
<td>96</td>
</tr>
<tr>
<td>1 2012 TOTAL</td>
<td>3,290</td>
<td>-</td>
<td>3,290</td>
</tr>
<tr>
<td>1 2013 ARMY</td>
<td>1,794</td>
<td>-</td>
<td>1,794</td>
</tr>
<tr>
<td>1 2013 • MC</td>
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<td>-</td>
<td>1,398</td>
</tr>
<tr>
<td>1 2013 TOTAL</td>
<td>3,192</td>
<td>-</td>
<td>3,192</td>
</tr>
<tr>
<td>1 2014 ARMY</td>
<td>2,171</td>
<td>-</td>
<td>2,171</td>
</tr>
<tr>
<td>1 2014 • MC</td>
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<td>-</td>
<td>36</td>
</tr>
<tr>
<td>1 2014 TOTAL</td>
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<th>Fiscal Year 2015</th>
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<td></td>
<td>Calendar Year 2014</td>
<td>Calendar Year 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Tactical GMLRS

| 1    | 2012    | ARMY | 3,194 | 800           | 2,394                | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | 266 | -  |
| 1    | 2012    | * MC  | 96    | 24            | 72                  | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | 8   | -  |
| 1    | 2013    | ARMY  | 1,794 | -  | 1,794       | 144 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 126 | 150 |
| 1    | 2013    | * MC  | 1,398 | 1,398        | -  | 81 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 120 | 120 | 119 |
| 1    | 2013    | TOTAL | 3,192 | 3,192        | -  | 225 | 245 | 245 | 245 | 245 | 245 | 281 | 293 | 294 | 305 | 300 | 269 |
| 1    | 2014    | ARMY  | 2,171 | -  | 2,171       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 181 |
| 1    | 2014    | * MC  | 36    | 36           | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 3   | 3   |
| 1    | 2014    | TOTAL | 2,207 | 2,207       | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 184 | 184 |

**Tactical GMLRS**

- **Date:** May 2013
- **Item Nomenclature:** C64400 - Guided MLRS Rocket (GMLRS)
- **P-1 Line Item Nomenclature:** C65404 - GUIDED MLRS ROCKET (GMLRS)
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

**P-1 Line Item Nomenclature:** C64400 - Guided MLRS Rocket (GMLRS)

**Item Nomenclature:** C65404 - GUIDED MLRS ROCKET (GMLRS)

**Date:** May 2013

**LI C64400 - Guided MLRS Rocket (GMLRS)**

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

**P-1 Line Item Nomenclature:**
- C64400 - Guided MLRS Rocket (GMLRS)

**Item Nomenclature:**
- C65404 - GUIDED MLRS ROCKET (GMLRS)

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<th>MFR Name - Location</th>
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<th>Initial</th>
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**Remarks:**
- Production of GMLRS varies as this program shares a production line with LCRRPRs. There are no production gaps during months that GMLRS are not being produced as LCRRPRs Rocket production continues. For FY13 there have been no Letters of Request for FMS procurement of GMLRS rockets.
- ‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components’ exhibits for details, including the full delivery schedule.
- "A" in the Delivery Schedule indicated the Contract Award Date.
- Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

P-1 Line Item Nomenclature: C98510 - ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM

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Note: This Resource Summary is for informational purposes only. The corresponding budget requests are documented elsewhere.

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Thousands) | 980.719 | - | - | - | 936.842 | 936.842 | - | - | - | - | - | 0.979 |

* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

* This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**

Army Tactical Missile Systems (ATACMS) provide 24/7 all-weather surface-to-surface artillery precision missiles used by current and future Joint Force Commands to shape the battlefield with long-range fires against hard and soft stationary targets in open, complex, and urban environments.

The ATACMS Program consists of four separate variants. ATACMS M39 was the first variant. It is a cluster munition that is inertial guided and carries 950 M74 bomblets to engage area or imprecisely located targets at ranges up to 165 kilometers (km). ATACMS M39A1 was a modification that reduced the number of M74 bomblets to 300 and extended the range up to 300 km. ATACMS M48 is the third variant that utilizes a proven government-furnished unitary warhead (470-pound Standoff Land Attack Missile-Expanded Response/HARPOON) and fuze into the warhead section to engage point targets up to 300 km with limited collateral damage. ATACMS M57 variant was driven by electronic parts obsolescence issues. This resulted in the ability to near vertical engagement of point targets up to 300 km.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

P-1 Line Item Nomenclature:
C98510 - ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM

ID Code (A=Service Ready, B=Not Service Ready): B
Program Elements for Code B Items: P5
Other Related Program Elements: 0203802A

MDAP/MAIS Code(s):

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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Justification:
ATACMS currently does not have FY14 base funding.

FY 2014 OCO procurement dollars in the amount of $35.6 million supports the acquisition of 38 ATACMS missiles to replenish United States Army missile stocks expended on the battlefield in support of OCO and all associated program management, support, test, and obsolescence costs.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2032A: Missile Procurement, Army / BA 02: Other Missiles / BSA 30: Anti-Tank/Assault Missile Sys

P-1 Line Item Nomenclature: C98510 - ARMY TACTICAL MSL SYS (ATACMS) - SYS SUM

Item Nomenclature (Item Number - Item Name, DODIC): C98501 - ATACMS BLK IA

Date: May 2013

Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Thousands) | 980.719 | - | - | - | 936.842 |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Initial Spares ($ in Millions) | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Thousands) | 980.719 | - | - | - | 936.842 |

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Department of Defense
Fiscal Year (FY) 2014 Amended Budget Estimate
May 2013

Army
Justification Book
Procurement of Ammunition, Army
PROCUREMENT OF AMMUNITION ARMY

Appropriation Language

For construction, procurement, production, modification, and modernization of ammunition, and accessories therefore; specialized equipment and training devices; expansion of public and private plants, including ammunition facilities, authorized by Sec 2854 of Title 10, United States Code, and land necessary therefore, for the foregoing purposes, and such lands and interest therein, may be acquired, and construction prosecuted thereon prior to approval of title; and procurement and installation of equipment, appliances, and machine tools in public and private plants; reserve plant and Government and contractor-owned equipment layaway; and other expenses necessary for the foregoing purposes, $180,900 to remain available for obligation until September 30, 2016.
# Table of Contents

- Line Item Table of Contents (by Appropriation then Line Number) ......................................................................................... ii
- Line Item Table of Contents (Alphabetically by Line Item Title).................................................................................................. iii
- Exhibit P-40's.................................................................................................................................................................................. 1
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**Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E00700 - CTG, 5.56MM, All Types

**Date:** May 2013

**Resource Summary**

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<td>5,113.834</td>
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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (Units in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**

This budget line includes 5.56MM ALL TYPES.

(E00901) M199A1, 5.56 Dummy, Drilled and Inert ammunition (DDI) is an inert dummy round used as an ammunition training aid and for weapon familiarization. The M199A1 DDI ammunition is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. This item is Code A, approved for service use.

(E01000) 5.56mm High Pressure Test round (HPT) is used for proofing 5.56mm weapon barrels. The cartridge case is stannic stained (silver). This round is required for testing the 5.56mm M16 and M4 family of weapons during manufacturing, test or repair. This item is Code A, approved for service use.

(E01100) 5.56mm, M200 Blank Cartridge is used for training and ceremonial purposes without blank firing adapter (BFA) and in M16A2/A4 Series Rifles and M4 Carbine fitted with BFA. This item is Code A, approved for service use.

(E04601) 5.56mm, M855 Ball Cartridge is used for training and ceremonial purposes without blank firing adapter (BFA) and in M16A2/A4 Series Rifles and M4 Carbine fitted with BFA. This item is Code A, approved for service use.

(E04607) 5.56mm M855A1 Ball Cartridges and M856A1 Tracer Cartridges are linked in a 4-Ball/1-Tracer configuration with the M27 link for use in the M249 Machine Gun. The M855A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. The M856A1 Tracer Cartridge is lead free and provides a visible red light signature through its trajectory. This item is Code A, approved for service use.

(E04608) 5.56mm M856A1 Tracer Bullet is lead free and provides a visible red light signature through its trajectory. The bullet is used in M16 and M4 Rifles/Carbinies. This item is Code A, approved for service use.
MDAP/MAIS Code(s):

(E95200) 5.56mm, M855A1 Ball Cartridge is linked with the M27 link for use in the M249 Machine Gun. The M855A1 Ball Cartridge has a steel penetrator and non-lead slug surrounded by a copper jacket. This item is Code A, approved for service use.

(E95400) 5.56mm, M855A1 Ball Cartridge has a steel penetrator and a non-lead slug in a copper alloy jacket. The cartridge is used in M16A2/A4 Rifles and M4 Carbine. This item is Code A, approved for service use.

(E95700) 5.56mm, M855A1 Ball Cartridge has steel penetrator and a non-lead slug in a copper alloy jacket. The cartridge is intended for use in M16 A2/A4 Rifles and M4 Carbine. This cartridge is commercial pack. This item is Code A, approved for service use.

(E96110) 5.56mm, Marking Blue M1042 is used for force-on-force training engagements. The cartridge can be fired with the existing M4 Carbine and M16A2/A3/A4 Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96111) 5.56mm, Marking Red, M1042 is used for force-on-force training engagements. The cartridge can be fired with the existing M4 Carbine and M16A2/A3/A4 Rifles with the use of a conversion bolt. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96120) 5.56mm, Marking Blue , M1071 is used for force-on-force training engagements. The cartridge can be fired with the existing M249 Squad Automatic Weapon with the use of the conversion kit. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96121) 5.56mm, Marking Red, M1071 is used for force-on-force training engagements. The cartridge can be fired with the existing M249 Squad Automatic Weapon with the use of the conversion kit. The projectile leaves a mark upon impact (similar to paintball), thus enabling after action evaluation of training scenarios. However, it differs from paintball in that it is a full complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. This item is Code A, approved for service use.

(E96126) M1037 5.56mm Short Range Training Ammunition (SRTA) linked round will be used in live fire training scenarios. The M1037 Linked round permits training in adjacent training areas due to its reduced Surface Danger Zone (SDZ) and can be fired with the existing M249 family of weapons. This item is Code A, approved for service use.

---

**Item Schedule**

<table>
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<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<th>Total Cost ($ M)</th>
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<th>Total Cost ($ M)</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M)</th>
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<td>-</td>
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<td>0.500</td>
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LI E00700 - CTG, 5.56MM, All Types

UNCLASSIFIED

Page 2 of 25

P-1 Line #1
### Program Elements for Code B Items:

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<thead>
<tr>
<th>Item Nomenclature*</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>5,002,200</td>
<td>3.082</td>
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<tr>
<td>CTG. 5.56MM MARKING LINKED, M1071 (BLUE) F/S AW</td>
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<td>0.73</td>
<td>568,800</td>
<td>0.413</td>
<td>0.84</td>
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<tr>
<td>E95700 - CTG. 5.56MM, BALL M855A1, CLIPPED BULK PACK</td>
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<td>-</td>
<td>46,369</td>
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<td>53,636,348</td>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:

**JUSTIFICATION:**

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations.
**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**Date:** May 2013

**P-1 Line Item Nomenclature:**
E00700 - CTG, 5.56MM, All Types

<table>
<thead>
<tr>
<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>(E01000) 5.56mm High Pressure Test round (HPT) is a testing unique item. The request supports annual testing requirements and builds a depot level in accordance with the Army's procurement goals.</td>
<td></td>
</tr>
<tr>
<td>(E01100) 5.56mm, M200 Blank Cartridge is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 Base Procurement dollars in the amount of $12.115 million supports the procurement of 74.341 million of the M200 Blank Cartridges.</td>
<td></td>
</tr>
<tr>
<td>(E04601) 5.56mm, M855 Ball Cartridge is a training standard item used in training and combat. The FY 2014 request supports engineering for items in production.</td>
<td></td>
</tr>
<tr>
<td>(E04607) 5.56mm M855A1 Ball and M856A1 Tracer Cartridges are training standard items used in both training and combat. The FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2014 Base Procurement dollars in the amount of $14.337 million supports the procurement of 35.339 million of the CTG 5.56mm M855A1 Ball and M856A1 Tracer Cartridges.</td>
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<tr>
<td>(E04608) 5.56mm M856A1 Tracer Bullet is lead free is a training standard item used in training and combat. The FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. This configuration also supports range training where a fire hazard exists if the tracer round is used.</td>
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<tr>
<td>(E95200) 5.56mm, M855A1 Ball Cartridge is linked with the M27 link and is a training standard item used in training and combat. The request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.</td>
<td></td>
</tr>
<tr>
<td>(E95400) 5.56mm, M855A1 Ball Cartridge is a training standard item used in training and combat. The FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2014 Base Procurement dollars in the amount of $38.335 million supports the procurement of 107.847 million of the CTG 5.56mm M855A1 Ball Cartridges. FY 2014 OCO procurement dollars in the amount of $4.400 million supports the procurement of 15.714 million of M855A1 Ball Cartridges.</td>
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</tr>
<tr>
<td>(E95700) 5.56mm, M855A1 Ball Cartridge is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 Base Procurement dollars in the amount of $38.905 million supports the procurement of 131.007 million of the M855A1 Ball Cartridges.</td>
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</tr>
<tr>
<td>(E96110/E96111) 5.56mm, Marking Blue /Marking Red, M1042 are training unique items not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 Base Procurement dollars in the amount of $3.251 million supports the procurement of 4.459 million of the Marking Blue M1042 and $2.253 million supports the procurement of 3.090 million of the Marking Red, M1042 .</td>
<td></td>
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<tr>
<td>(E96120/E96121) 5.56mm, Marking Blue/Marking Red, M1071 are training unique items not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 Base Procurement dollars in the amount of $.169 million supports the procurement of $.195 million of the Marking Blue M1071 and $.169 million supports the procurement of .195 million of the Marking Red, M1071 .</td>
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</tr>
<tr>
<td>(E96126) M1037 5.56mm Short Range Training Ammunition (SRTA) linked round is a training unique item not used in combat. The procurement supports annual training and builds a depot level in accordance with the Army's procurement goals.</td>
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</table>
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
- E00700 - CTG, 5.56MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
- E01100 - CTG 5.56MM BLANK M200

### Resource Summary

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<td>Less PY Advance Procurement</td>
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<td>Plus CY Advance Procurement</td>
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<td>29.709</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

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- FY 2014 Base: -
- FY 2014 OCO: -
- FY 2014 Total: -

#### Cost Elements

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<th>FY 2013</th>
<th>FY 2014 Base</th>
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<td>Unit Cost ($M)</td>
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**P-5 Remarks:**

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Date:** May 2013
## Exhibit P-5A, Budget Procurement History and Planning:

**PB Amended 2014 Army**

### Appropriation / Budget Activity / Budget Sub Activity:

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

### P-1 Line Item Nomenclature:

E00700 - CTG, 5.56MM, All Types

### Item Nomenclature:

E01100 - CTG 5.56MM BLANK M200

### Cost Elements

| Cost Elements († indicates the presence of a P-21) | O C O FY | Contractor and Location | Method/Type, or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| †LOAD, ASSEMBLE, PACK (LAP) | 2012 | ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO | SS / FFP | ROCK ISLAND ARSENAL, IL | Feb 2012 Oct 2012 | 115,532K | 0.23 | Y | |
| †LOAD, ASSEMBLE, PACK (LAP) | 2013 | ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO | C / FFP | ROCK ISLAND ARSENAL, IL | Mar 2013 Oct 2013 | 26,488,402 | 0.31 | Y | |
| †LOAD, ASSEMBLE, PACK (LAP) | 2014 | ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO | C / FFP | ROCK ISLAND ARSENAL, IL | Mar 2014 Oct 2014 | 74,341,635 | 0.13 | Y | |
| BOX METAL M2A1 | 2012 | BWAY CORPORATION / ATLANTA, GA | C / FFP | ROCK ISLAND ARSENAL, IL | May 2012 Jul 2012 | 102,824 | 9.41 | Y | |
| BOX METAL M2A1 | 2013 | BWAY CORPORATION / ATLANTA, GA | C / FFP | ROCK ISLAND ARSENAL, IL | May 2013 Jul 2013 | 23,575 | 11.83 | Y | |
| BOX METAL M2A2 | 2014 | TO BE SELECTED / TBS01 | C / FFP | ROCK ISLAND ARSENAL, IL | May 2014 Jul 2014 | 66,164 | 12.83 | Y | |

### Remarks:

- FY 2012 BOX, METAL M2A1 IS AN AVERAGE UNIT COST. FY 2014 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY12.
- This is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army’s procurement goals.
- FY 2014 Base Procurement dollars in the amount of $12.115 million supports the procurement of 74.342 million cartridges of the CTG 5.56MM, BLANK M200.
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

#### P-1 Line Item Nomenclature:
- **LI E00700 - CTG, 5.56MM, All Types**

#### Item Nomenclature:
- **E01100 - CTG 5.56MM BLANK M200**

### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2012</th>
<th>Fiscal Year 2013</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Calendar Year 2012</td>
<td>Calendar Year 2013</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)</td>
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</table>

#### Fiscal Year 2012:
- **2012 ARMY**
  - 15,532K
  - 11,085
  - 9.628
  - 33.255

#### Fiscal Year 2013:
- **2013 ARMY**
  - 26.488
  - 11,085
  - 29.507

### Date:
May 2013
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

#### P-1 Line Item Nomenclature:
E00700 - CTG, 5.56MM, All Types

#### Item Nomenclature:
E01100 - CTG 5.56MM BLANK M200

---

**Cost Elements**

*Units in Millions ("<" = < 500 units)*

<table>
<thead>
<tr>
<th>O</th>
<th>C</th>
<th>R</th>
<th>#</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC QTY</th>
<th>ACCEP PRIOR TO 1 OCT 2013</th>
<th>BAL DUE AS OF 1 OCT</th>
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**Fiscal Year 2014**

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<th>Fiscal Year 2015</th>
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<tr>
<td>FY 2014</td>
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<tr>
<td>ARMY</td>
<td>74,342 K</td>
<td>74,342 K</td>
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<td>NAVSEA</td>
<td>18,883</td>
<td>18,883</td>
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<tr>
<td>MC</td>
<td>6,392</td>
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<td>1,295</td>
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<td>TOTAL</td>
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**Calendar Year 2014**

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<tr>
<th>LOAD, ASSEMBLE, PACK (LAP)</th>
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</thead>
<tbody>
<tr>
<td>FY 2014</td>
<td></td>
</tr>
<tr>
<td>ARMY</td>
<td>74,342 K</td>
</tr>
<tr>
<td>NAVSEA</td>
<td>18,883</td>
</tr>
<tr>
<td>MC</td>
<td>6,392</td>
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<tr>
<td>NSOF</td>
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<tr>
<td>TOTAL</td>
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**Calendar Year 2015**

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<tr>
<th>LOAD, ASSEMBLE, PACK (LAP)</th>
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</thead>
<tbody>
<tr>
<td>FY 2015</td>
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</tr>
<tr>
<td>ARMY</td>
<td>74,342 K</td>
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<tr>
<td>NAVSEA</td>
<td>18,883</td>
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<td>MC</td>
<td>6,392</td>
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<td>1,295</td>
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<tr>
<td>TOTAL</td>
<td>99,616</td>
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</table>

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LI E007000 - CTG, 5.56MM, All Types

UNCLASSIFIED

**Page** 8 of 25

**P-1 Line #1**
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
- E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:**
- E01100 - CTG 5.56MM BLANK M200

**Date:** May 2013

**Production Rates (Each / Month)**

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
</tr>
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<tbody>
<tr>
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**Procurement Leadtime (Months)**

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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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</thead>
<tbody>
<tr>
<td>6</td>
<td>6</td>
<td>7</td>
<td>13</td>
<td>6</td>
<td>6</td>
<td>7</td>
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</tbody>
</table>

‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components’ exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
E00700 - CTG, 5.56MM, All Types

Item Nomenclature (Item Number - Item Name, DODIC):
E04607 - CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED

Date: May 2013

Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>15,611,752</td>
<td>18,009,969</td>
<td>35,338,526</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</table>

Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost (Units in Dollars)

Hardware Cost

Recurring Cost

† COMPLETE ROUND

Total Recurring Cost

Total Hardware Cost

Support Cost

PRODUCTION ENGINEERING

LEAD-FREE ENGINEERING INITIATIVES

Total Support Cost

Gross Weapon System Cost

P-5 Remarks:

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Cost Elements

<table>
<thead>
<tr>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Cost</td>
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<tr>
<td>Production Engineering</td>
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<tr>
<td>Lead-Free Engineering Initiatives</td>
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<tr>
<td>Total Support Cost</td>
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<tr>
<td>Gross Weapon System Cost</td>
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</table>
### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:**
E04607 - CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED

#### Cost Elements

<table>
<thead>
<tr>
<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>†COMPLETE ROUND 2012</td>
<td>ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO</td>
<td>SS / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
<td>Apr 2012</td>
<td>Dec 2012</td>
<td>15,611,752</td>
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<tr>
<td>†COMPLETE ROUND 2013</td>
<td>ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO</td>
<td>C / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
<td>Mar 2013</td>
<td>Apr 2014</td>
<td>18,009,969</td>
<td>0.79</td>
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<tr>
<td>†COMPLETE ROUND 2014</td>
<td>ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO</td>
<td>C / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
<td>Mar 2014</td>
<td>Apr 2015</td>
<td>35,338,526</td>
<td>0.37</td>
<td>Y</td>
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</table>

#### Remarks:

FY 2014 COMPLETE ROUND IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY12.

This is a training standard item used in both training and combat. The FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

FY 2014 Base Procurement dollars in the amount of $14.337 million supports the procurement of 35.339 million cartridges of the CTG 5.56MM, 4 BALL M855A1 EPR /1 TR M856A1 LINKED (AB73).
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition

P-1 Line Item Nomenclature:
E00700 - CTG, 5.56MM, All Types

Item Nomenclature:
E04607 - CTG, 5.56MM 4 BALL M855A1 EPR /1 TR M856A1 LINKED

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>Fiscal Year 2012</th>
<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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<tbody>
<tr>
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<td>- 15.612</td>
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<tr>
<td></td>
<td>1 2013 ARMY 18.010</td>
<td>- 18.010</td>
<td>-</td>
<td>-</td>
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<tr>
<td></td>
<td>1 2014 ARMY 35.339</td>
<td>- 35.339</td>
<td>-</td>
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</tbody>
</table>
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

#### Appropriation / Budget Activity / Budget Sub Activity:
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

#### P-1 Line Item Nomenclature:
- E00700 - CTG, 5.56MM, All Types

#### Item Nomenclature:
- E04607 - CTG, 5.56MM 4 BALL M855A1
- EPR /1 TR M856A1 LINKED

#### Cost Elements (Units in Millions (* = < 500 units))

<table>
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<th></th>
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<tr>
<td></td>
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<th>Calendar Year 2015</th>
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<tr>
<td>Complete Round</td>
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<td></td>
</tr>
<tr>
<td>1 2012</td>
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<tr>
<td>1 2013</td>
<td>18.010</td>
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</tr>
<tr>
<td>1 2014</td>
<td>35.339</td>
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</tbody>
</table>
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01:  
Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**  
E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:**  
E04607 - CTG, 5.56MM 4 BALL M855A1  
EPR /1 TR M856A1 LINKED

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<td>13</td>
<td>19</td>
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</tbody>
</table>

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Procurement Quantity</strong> (Units in Each)</td>
<td>-</td>
<td>187,367K</td>
<td>211,466K</td>
<td>107,847K</td>
<td>15,714,286</td>
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<tr>
<td><strong>Gross/Weapon System Cost</strong> ($ in Millions)</td>
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<td>86.215</td>
<td>107.505</td>
<td>38.335</td>
<td>4.400</td>
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<tr>
<td><strong>Less PY Advance Procurement</strong> ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>**Net Procurement (P1) ($ in Millions)</td>
<td>598.271</td>
<td>86.215</td>
<td>107.505</td>
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<td>4.400</td>
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<tr>
<td><strong>Plus CY Advance Procurement</strong> ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td><strong>Total Obligation Authority</strong> ($ in Millions)</td>
<td>598.271</td>
<td>86.215</td>
<td>107.505</td>
<td>38.335</td>
<td>4.400</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Cost Elements

#### Hardware Cost
- **Recurring Cost**
  - **† LOAD, ASSEMBLE, PACK (LAP)**
    - Unit Cost ($): 0.39
    - Quantity (Each): 187,367K
    - Total Cost ($ M): 73.073
  - **† BOX METAL M2A1**
    - Unit Cost ($): 9.40
    - Quantity (Each): 224,840
    - Total Cost ($ M): 2.113
  - **† BOX METAL M2A2**
    - Unit Cost ($): 12.83
    - Quantity (Each): 129,417
    - Total Cost ($ M): 1.660
- **Total Recurring Cost**: 598.271
- **Total Hardware Cost**: 598.271

#### Support Cost
- **PRODUCTION ENGINEERING**
  - Unit Cost ($): 7.721
  - Quantity (Each): -
  - Total Cost ($ M): 5.784
- **QUALITY ASSURANCE**
  - Unit Cost ($): 0.010
  - Quantity (Each): -
  - Total Cost ($ M): 0.011
- **ACCEPTANCE TESTING**
  - Unit Cost ($): 0.210
  - Quantity (Each): -
  - Total Cost ($ M): 0.249
- **ENGINEERING INITIATIVES**
  - Unit Cost ($): 3.088
  - Quantity (Each): -
  - Total Cost ($ M): 3.299
- **LEAD-FREE ENGINEERING INITIATIVES**
  - Unit Cost ($): -
  - Quantity (Each): -
  - Total Cost ($ M): 1.687
- **Total Support Cost**: 11,029K

**Gross Weapon System Cost**: 598.271

---

FY 2013 Program is from the FY 2013 President’s Budget, submitted February 2012.

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.
<table>
<thead>
<tr>
<th>Exhibit P-5, Cost Analysis: PB Amended 2014 Army</th>
<th>Date: May 2013</th>
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</thead>
<tbody>
<tr>
<td><strong>Appropriation / Budget Activity / Budget Sub Activity:</strong></td>
<td><strong>Item Nomenclature (Item Number - Item Name, DODIC):</strong></td>
</tr>
<tr>
<td><strong>P-1 Line Item Nomenclature:</strong></td>
<td>E00700 - CTG, 5.56MM, All Types</td>
</tr>
</tbody>
</table>

P-5 Remarks:
**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army  

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition  

**P-1 Line Item Nomenclature:** E00700 - CTG, 5.56MM, All Types  

**Item Nomenclature:** E95400 - CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK  

**Date:** May 2013

| Cost Elements († indicates the presence of a P-21) | O C O | FY | Contractor and Location | Method/Type, or Funding Vehicle | Location of PCO | Award Date | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| †LOAD, ASSEMBLE, PACK (LAP) | 2012 | ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO | SS / FFP | ROCK ISLAND ARSENAL, IL | Mar 2012 | Apr 2013 | 161,136K | 0.39 | Y |  |
| †LOAD, ASSEMBLE, PACK (LAP) | 2012 | OLIN CORP WINCHESTER DIVISION / EAST ALTON, IL | C / FFP | ROCK ISLAND ARSENAL, IL | Mar 2012 | Dec 2012 | 26,231,390 | 0.39 | Y |  |
| †LOAD, ASSEMBLE, PACK (LAP) | 2013 | ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO | C / FFP | ROCK ISLAND ARSENAL, IL | Mar 2013 | Apr 2014 | 211,466K | 0.45 | Y |  |
| †LOAD, ASSEMBLE, PACK (LAP) | 2014 | ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO | C / FFP | ROCK ISLAND ARSENAL, IL | Mar 2014 | Apr 2015 | 123,562K | 0.28 | Y |  |
| BOX METAL M2A1 | 2013 | BWAY CORPORATION / ATLANTA, GA | C / FFP | ROCK ISLAND ARSENAL, IL | May 2013 | Jul 2013 | 253,759 | 11.83 | Y |  |
| BOX METAL M2A2 | 2014 | TO BE SELECTED / TBS01 | C / FFP | ROCK ISLAND ARSENAL, IL | May 2014 | Jul 2014 | 129,417 | 12.83 | Y |  |

**Remarks:**  

This is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals.  

FY 2014 Base Procurement dollars in the amount of $38.335 million supports the procurement of 107.847 million cartridges of the CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK. FY 2014 OCO Procurement dollars in the amount of $4.400 million supports the procurement of 15.714 million of the CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

#### P-1 Line Item Nomenclature:
E00700 - CTG, 5.56MM, All Types

#### Item Nomenclature:
E95400 - CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK

<table>
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<tr>
<th>Cost Elements (Units in Millions (* = &lt; 500 units))</th>
<th>Fiscal Year 2012</th>
<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
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LI E00700 - CTG, 5.56MM, All Types

**UNCLASSIFIED**

Page 18 of 25

P-1 Line #1
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:**
E95400 - CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK

**Date:** May 2013

**Cost Elements**

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<th>Proc Qty</th>
<th>Date</th>
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**Cost Elements (Units in Millions (* = < 500 units))**

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<th>Proc Qty</th>
<th>Date</th>
<th>Appropriation / Budget Activity / Budget Sub Activity</th>
<th>P-1 Line Item Nomenclature</th>
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**Cost Elements (Units in Millions (* = < 500 units))

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<th>Proc Qty</th>
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<th>Appropriation / Budget Activity / Budget Sub Activity</th>
<th>P-1 Line Item Nomenclature</th>
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<th>Proc Qty</th>
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Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army


P-1 Line Item Nomenclature: E00700 - CTG, 5.56MM, All Types

Item Nomenclature: E95400 - CTG 5.56MM, BALL M855A1 EPR, CLIPPED MIL PACK

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<th>MFR Name - Location</th>
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<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
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<td>MSR 1-8-5 MAX</td>
<td>ALT Prior to Oct 1 ALT After Oct 1 Mfg PLT Total After Oct 1 ALT Prior to Oct 1 ALT After Oct 1 Mfg PLT Total After Oct 1</td>
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<td>ALLIANT TECH DBA LAKE CITY - INDEPENDENCE, MO</td>
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<td>13 19 6 6 13 19</td>
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<td>OLIN CORP WINCHESTER DIVISION - EAST ALTON, IL</td>
<td>.002 .500 19.500</td>
<td>6 6</td>
<td>6 12 6 6 2 8</td>
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</tbody>
</table>

‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components’ exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E00700 - CTG, 5.56MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E95700 - CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK

**Date:** May 2013

### Resource Summary

<table>
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<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>31,539,866</td>
<td>131,007K</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>46.369</td>
<td>20.171</td>
<td>14.080</td>
<td>38.905</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>20.171</td>
<td>14.080</td>
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### Cost Elements

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<th>FY 2014 Base</th>
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<tr>
<td>Recurring Cost</td>
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<td>37.255</td>
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<td>37.255</td>
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### P-5 Remarks:

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

Initial Spares ($ in Millions)

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<td>Gross/Weapon System Unit Cost (Units in Dollars)</td>
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### Gross Weapon System Cost

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<th>FY 2013</th>
<th>FY 2014 Base</th>
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<tr>
<td>Gross/Weapon System Unit Cost (Units in Dollars)</td>
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**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:** E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:** E95700 - CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK

**Date:** May 2013

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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
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<td>C / FFP</td>
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<td>TO BE SELECTED / TBS01</td>
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<td>12.83</td>
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**Remarks:**
FY 2014 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY12.

This is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals.

FY 2014 Base Procurement dollars in the amount of $38.905 million supports the procurement of 131.007 million cartridges of the CTG 5.56MM, BALL M855A1, CLIPPED BULK PACK.
**UNCLASSIFIED**

### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

#### P-1 Line Item Nomenclature:
E00700 - CTG, 5.56MM, All Types

#### Item Nomenclature:
E95700 - CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK

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**Cost Elements**

| 1 | 2012 | ARMY | 53.636 | - | 53.636 | - | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 26.818 | 26.818 | - |
| 1 | 2013 | ARMY | 31.540 | - | 31.540 | - | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 31.540 |
| 1 | 2014 | ARMY | $1,007K | - | $1,007K | - | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 31,007K |

**Exhibit P-21, Budget Production Schedule:**

**Cost Elements:**

**Fiscal Year 2012**

**Calendar Year 2012**

**Fiscal Year 2013**

**Calendar Year 2013**

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**LI E00700 - CTG, 5.56MM, All Types Army**

**UNCLASSIFIED**

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P-1 Line #1
### Cost Elements (Units in Millions "*" = < 500 units)

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<th>BAL DUE AS OF 1 OCT</th>
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### Fiscal Year 2014

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**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01:
  - Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
- E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:**
- E95700 - CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK

**Date:** May 2013

**UNCLASSIFIED**
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E00700 - CTG, 5.56MM, All Types

**Item Nomenclature:**
E95700 - CTG, 5.56MM, BALL M855A1, CLIPPED BULK PACK

**Date:** May 2013

**Production Rates (Each / Month) / Procurement Leadtime (Months)**

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<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>Initial ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<tbody>
<tr>
<td>1</td>
<td>ALLIANT TECH DBA LAKE CITY - INDEPENDENCE, MO</td>
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*A* in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
EA3000 - CTG, Handgun, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(Initial Spares ($ in Millions))

(FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012)

(## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013)

### Description:
This budget line includes Handguns ALL TYPES.

(E05209) CTG 9MM HIGH PRESSURE TEST (HPT) M905 has a stannic (silver) stained case. It also has HPT stamped on the rear of the case. Used in proofing M9 pistols and test barrels to demonstrate safety prior to releasing weapons to the field. This item is Code A, approved for service use.

(E05216) CTG, 9MM MK254 MOD FRANGIBLE is intended for use against steel targets during training to reduce ricochets and splash back experienced with the standard projectile. This cartridge is used in the M9 Service Pistols. This item is Code B, not approved for service use.

(E05217) CTG, 9MM SINGLE ROUND, Dummy Drill and Inert (DDI), M917A1 ammunition cartridge is an inert (no energetic) dummy round used as an ammunition training aid and for weapon familiarization. This item is Code A, approved for service use.

(E96105) CTG 9MM MARKING, M1041 (BLUE) is used for force on force training engagements. The cartridge can be fired with existing M9/M11 pistols with use of a conversion kit. The M9 kit consists of a replacement barrel only. The M11 kit consists of a replacement barrel and recoil spring guide. A blue enameled portion of the M9 and M11 barrels is visible through the ejection port of the weapons. The projectile leaves a mark upon impact similar to paintball, enabling after action evaluation of training scenarios. It differs from paintball in that it is a complete cartridge with projectile and cartridge case containing a propulsion system for a low velocity launch. The M1041 is required to hit targets accurately out to 12 meters. The cartridge has been safety certified to be fired in close proximity at properly protected human subjects. This item is Code A, approved for service use.

(E96107) CTG, 9MM MARKING, M1041 (RED) is used for force on force training engagements. The cartridge can be fired with existing M9/M11 pistols with use of a conversion kit. The M9 kit consists of a replacement barrel only. The M11 kit consists of a replacement barrel and recoil spring guide. A blue enameled portion of the M9 and M11 barrels is visible through the ejection port of the weapons. The projectile leaves a mark upon impact similar to paintball, enabling after action evaluation of training scenarios. It differs from paintball in that it is a complete cartridge with projectile and cartridge case.
**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/ Medium Cal Ammunition

**P-1 Line Item Nomenclature:**

EA3000 - CTG, Handgun, All Types

**Date:** May 2013

**MDAP/MAIS Code(s):**

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<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready) :</th>
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Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.*

<table>
<thead>
<tr>
<th>Item Schedule</th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td><strong>Item Nomenclature</strong></td>
<td><strong>Exhibits</strong></td>
<td><strong>ID CD</strong></td>
<td><strong>Unit Cost ($)</strong></td>
<td><strong>Qty (Each)</strong></td>
<td><strong>Total Cost ($ M)</strong></td>
<td><strong>Unit Cost ($)</strong></td>
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<tr>
<td>CTG 9MM HIGH PRESSURE TEST M905</td>
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<td>CTG, 9MM JACKETED HOLLOW-POINT (LO VEL)</td>
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<td>CTG, 9MM SINGLE ROUND, (DD), M917A1</td>
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<tr>
<td>E05210 - CTG, 9MM BALL, M882 (Combat Pack)</td>
<td>P5, P5A, P21</td>
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<td>61.689</td>
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<tr>
<td>E99900 - CTG, 9MM Ball, M882 (Commercial Pack)</td>
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<td><strong>Total Gross/Weapon System Cost</strong></td>
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<td><strong>155.661</strong></td>
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**Justification:**

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed programs.

*UNCLASSIFIED*
missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations.

(E05209) CTG 9MM HIGH PRESSURE TEST M905 is a testing unique item. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.

(E05217) CTG, 9MM SINGLE ROUND, (DDI), M917A1 is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $0.150 million supports the procurement of 0.069 million cartridges M917A1 DDI.

(E96105) CTG 9MM MARKING, M1041 (BLUE) is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $0.324 million supports the procurement of 0.502 million cartridges Marking M1041 (Blue).

(E96107) CTG, 9MM MARKING, M1041 (RED) is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $0.324 million supports the procurement of 0.502 million cartridges Marking M1041 (Red).

(E99900) CTG 9MM BALL M882: COMMERCIAL PACK is a training standard item packed commercially for training. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $7.475 million supports the procurement of 43.160 million cartridges M882 Ball Commercial Pack.

(E05213) CTG, 9MM JCKTD HOLLOW-PT (LoVel) is not a combat or training round. The request supports annual training and builds a depot level in accordance with the Army's procurement goals.

(E05210) CTG 9MM BALL M882 (Combat Pack) is a training standard item used in both training and combat. The FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2014 Base procurement dollars in the amount of $1.585 million supports the procurement of 43.160 million cartridges M882 Ball Commercial Pack. FY 2014 OCO procurement dollars in the amount of $1.500 million supports the procurement of 8.214 million cartridges M882 Ball Combat Pack.
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

### P-1 Line Item Nomenclature:
EA3000 - CTG, Handgun, All Types

### Item Nomenclature (Item Number - Item Name, DODIC):
E05210 - CTG, 9MM BALL, M882 (Combat Pack)

### Resource Summary

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<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>30,413,724</td>
<td>6,947,093</td>
<td>8,213,500</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>3.701</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Hardware Cost

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<th>Cost Elements</th>
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### Support Cost

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<th>FY 2014 Base</th>
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<tr>
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### Gross Weapon System Cost

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<th>FY 2014 OCO</th>
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<td></td>
<td>61.689</td>
<td>3.701</td>
<td>6.095</td>
<td>1.585</td>
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**P-5 Remarks:**
Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
EA3000 - CTG, Handgun, All Types

**Item Nomenclature:**
E05210 - CTG, 9MM BALL, M882 (Combat Pack)

### Cost Elements

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<th>Unit Cost ($)</th>
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<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>OLIN CORP WINCHESTER DIVISION / EAST ALTON, IL</td>
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**Remarks:**
FY 2012 BOX, METAL M2A1 IS AN AVERAGE UNIT COST

TYPE CLASSIFICATION DATE: 1985
### Load, Assemble, Pack (LAP)

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<th>Fiscal Year 2013</th>
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#### P-1 Line Item Nomenclature:

- E05210 - CTG, 9MM BALL, M882 (Combat Pack)

#### Item Nomenclature:

- E05210 - CTG, 9MM BALL, M882 (Combat Pack)

---

**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**

- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**

- EA3000 - CTG, Handgun, All Types

**Date:** May 2013
## Fiscal Year 2014

<table>
<thead>
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<th>Cost Elements (Units in Millions</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**  
EA3000 - CTG, Handgun, All Types

**Item Nomenclature:**  
E05210 - CTG, 9MM BALL, M882 (Combat Pack)

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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
EA3000 - CTG, Handgun, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E99900 - CTG, 9MM Ball, M882 (Commercial Pack)

**Date:** May 2013

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**P-5 Remarks:**

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.
- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.
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Remarks:
TYPE CLASSIFICATION DATE: 1985
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Nomenclature:**
- EA3000 - CTG, Handgun, All Types

**Item Nomenclature:**
- E99900 - CTG, 9MM Ball, M882 (Commercial Pack)

**Date:** May 2013

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<td><strong>O</strong> <strong>N</strong> <strong>D</strong> <strong>J</strong> <strong>F</strong> <strong>M</strong> <strong>A</strong> <strong>M</strong> <strong>J</strong> <strong>J</strong> <strong>A</strong> <strong>S</strong> <strong>O</strong> <strong>N</strong> <strong>D</strong></td>
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**COMPLETE ROUND**

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| **C** **O** **E** **A** **E** **A** **P** **A** **U** **U** | **E** **C** **O** **E** | **A** **E** **A** **P** **A** **U** **U** | **E** **C** **O** **E** | **A** **E** **A** **P** **A** **U** **U** |
| **T** **V** | **C** **N** **B** **R** | **R** **Y** | **N** **L** | **G** | **P** | **T** **V** | **C** | **N** **B** | **R** | **Y** | **N** | **L** | **G** | **P** | **L** |
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01:
  - Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
- EA3000 - CTG, Handgun, All Types

**Item Nomenclature:**
- E99900 - CTG, 9MM Ball, M882 (Commercial Pack)

**Date:** May 2013

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**Notes:**
- Fiscal Year: Calendar Year
- O C O M F R #
- Complete Round
- In Millions (* = < 500 units)
**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
EA3000 - CTG, Handgun, All Types

**Item Nomenclature:**
E99900 - CTG, 9MM Ball, M882 (Commercial Pack)

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

ID Code (A=Service Ready, B=Not Service Ready) :

Program Elements for Code B Items:

Other Related Program Elements:

### Resource Summary

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<td>119.604</td>
<td>80.037</td>
<td>5.000</td>
<td>85.037</td>
<td>77.289</td>
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<td>77.289</td>
<td>77.386</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>119.604</td>
<td>80.037</td>
<td>5.000</td>
<td>85.037</td>
<td>77.289</td>
<td>77.386</td>
<td>79.729</td>
<td>89.139</td>
<td>-</td>
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</table>

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
Flyaway Unit Cost (Units in Dollars) | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - | - | - | - | - | - | - |

### Description:

This budget line includes .50 CAL ALL TYPES.

(E06700) The .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge, packed single round, is used in the M2 Machine Gun and the M107 and M82A1 Long Range Sniper Rifles. This cartridge is identified with a gray bullet tip. This is used in .50 Caliber Sniper training, a cost effective training round over the more expensive MK211 Long Range Sniper ammunition and minimizes training range limitations. This item is Code A, approved for service use.

(E06810) The .50 Caliber M20 Armor Piercing Trace (API-T) is a single round for use in the M2/M3 Machine Gun variations and M82A1 and M107 rifles. The bullet is designed with an Armor Piercing steel tip with incendiary pyrotechnic fill designed to penetrate light armor vehicles and ignite contents. The M20 is also a traced round which permits observation of the bullet's trajectory via a visible red light signature to the point of impact. The cartridge is identified by a red tip with an aluminum colored ring to the rear of the red tip. This item is Code A, approved for service use.

(E06903) The .50 Caliber Cartridge, Armor Piercing Incendiary (API) M8 and Cartridge, Tracer M20 linked 4 to 1 in 100 round belts with the M9 link for use in the M2/M3 Machine Gun to defeat personnel and light armored targets. This item is Code A, approved for service use.

(E07000) The M858 and M860 are .50 Caliber Short Range Training Ammunition (SRTA) Cartridges. The M858 is linked 4 to 1 with the M860 Tracer Cartridge. These training cartridges are fired from the M2/M3 Machine Gun when equipped with a special training bolt and amplifier. The amplifier is a barrel attachment used on the M2 .50 Caliber Machine Gun. The amplifier cycles the weapon chamber to the next round in order to fire. The M858 and M860 consist of a plastic cartridge case, a primer, propellant, and a plastic projectile. These cartridges have a maximum effective range of 750 meters. This item is Code A, approved for service use.

(E07100) The .50 Caliber Cartridge Ball M33 Link is linked in 100 round belts with the M9 link for use in the M2/M3 Machine Gun. This round is also used in function test firing of the M2/M3 Machine Gun. This item is Code A, approved for service use.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army


P-1 Line Item Nomenclature: E08000 - CTG, .50 Cal, All Types

UNCLASSIFIED

Date: May 2013

Program Elements for Code B Items:

Other Related Program Elements:

MDAP/MAIS Code(s):

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<th>ID Code</th>
<th>Program Elements for Code B Items:</th>
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<td>E07200</td>
<td>The .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4 to 1 in a 100 round belt with the M9 link for use in M2/M3 Machine Gun against unarmored targets. The tracer cartridge permits observation of the bullet's trajectory to the point of impact. M17 has a brown bullet tip. M33 has a plain bullet tip. This item is Code A, approved for service use.</td>
</tr>
<tr>
<td>E07302</td>
<td>The .50 Caliber Blank Cartridge, M1A1 linked in a 100 round belt with the M9 link for use in the M2/M3 Machine Gun. This round is a blank cartridge with a rosette crimp at the mouth used to simulate firing in training exercises in conjunction with the M19 Blank Firing Attachment (BFA). This item is Code A, approved for service use.</td>
</tr>
<tr>
<td>E07900</td>
<td>The .50 Caliber High Pressure Test (HPT) Cartridge M1, is used in all .50 Caliber weapons for proof testing during manufacturing, test and repair. The cartridge has a stannic stained (silvered) case. This item is Code A, approved for service use.</td>
</tr>
<tr>
<td>E19700</td>
<td>The .50 Caliber Multi-Purpose (MP), MK211 MOD 0 (Single Round) is used in the M82A1 McMillan and M107 Barrett Sniper Rifles. The Grade A MK211 is a single round. The .50 Caliber Multi-Purpose Cartridge provides improved penetration performance against light armored vehicles and personnel. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges. The cartridge is identified with a green and gray bullet tip. This item is Code A, approved for service use.</td>
</tr>
<tr>
<td>E72191</td>
<td>The .50 Caliber Dummy Linked Cartridge is an inert cartridge used for M2A1 training exercises including ammunition/weapon familiarization, setting headspace and adjusting timing. The new Dummy, Drilled, Inert (DDI) configuration is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. The cartridges are linked in 100 round belts using the M9 link. This item is Code A, approved for service use.</td>
</tr>
<tr>
<td>E72192</td>
<td>The .50 Caliber Dummy Single Round (DSR) is an inert cartridge used for M2A1 training exercises including ammunition/weapon familiarization, setting headspace and adjusting timing. The new Dummy, Drilled, Inert (DDI) configuration is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. This item is Code A, approved for service use.</td>
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Item Schedule:

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<th>Exhibits</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Unit Cost ($)</td>
<td>-</td>
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<tr>
<td>CTG CAL .50 SRTA, 4 BALL M858, 1 TR M860, W/M9 LINK</td>
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<td>A</td>
<td>Unit Cost ($)</td>
<td>-</td>
<td>Unit Cost ($)</td>
<td>-</td>
<td>Total Cost ($)</td>
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<tr>
<td>CTG CAL .50 BLANK M1A1 LKD W/M9 LINK F/M</td>
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<td>CTG CAL .50 DUMMY M2A1, LINKED</td>
<td>P40A</td>
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<td>Unit Cost ($)</td>
<td>-</td>
<td>Unit Cost ($)</td>
<td>-</td>
<td>Total Cost ($)</td>
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LI E08000 - CTG, .50 Cal, All Types
UNCLASSIFIED

Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
E08000 - CTG, .50 Cal, All Types

MDAP/MAIS Code(s):
System Cost
Total Gross/Weapon
Purpose, MK211 MOD 0
E19700 - Ctg Cal .50 Multi-BALL/1 TRACER W/M9 LINK
E07200 - CTG CAL .50 4 LINKED M33 LINK
E07100 - CTG CAL .50 BALL 4 TRACER M17 w/M9 LINK
E06810 - CTG CAL .50 M8, Armor Piercing Trace (API-T), is a single round for use in the M2/M3 Machine Gun variations and M82A1 and M107 rifles. The bullet is designed with an Armor Piercing steel tip with incendiary pyrotechnic fill designed to penetrate light armor vehicles and ignite contents. The M20 is also a traced round which permits observation of the bullet's trajectory via a visible red light signature to the point of impact. The cartridge is identified by a red tip with an aluminum colored ring to the rear of the red tip. This item is Code A, approved for service use.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations.

(E06700) The .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge, packed single round, is used in the M2 Machine Gun and the M107 and M82A1 Long Range Sniper Rifles. This cartridge is identified with a gray bullet tip. This is used in .50 Caliber Sniper training, a cost effective training round over the more expensive MK211 Long Range Sniper ammunition and minimizes training range limitations. This item is Code A, approved for service use. FY 2014 Base procurement dollars in the amount of $1.100 million supports the procurement of .468 million 50 Caliber M8, Armor Piercing Incendiary (API) Cartridges. FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations.

(E06810) The .50 Caliber M20 Armor Piercing Trace (API-T), is a single round for use in the M2/M3 Machine Gun variations and M82A1 and M107 rifles. The bullet is designed with an Armor Piercing steel tip with incendiary pyrotechnic fill designed to penetrate light armor vehicles and ignite contents. The M20 is also a traced round which permits observation of the bullet's trajectory via a visible red light signature to the point of impact. The cartridge is identified by a red tip with an aluminum colored ring to the rear of the red tip. This item is Code A, approved for service use.

(E06903) The .50 Caliber Cartridge, Armor Piercing Incendiary (API) M8 and Cartridge, Tracer M20 linked 4 to 1 in 100 round belts with the M9 link for use in the M2/M3 Machine Gun to defeat personnel and light armored targets. This item is Code A, approved for service use.

Justification:
JUSTIFICATION:

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle. FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations.

(E06670) The .50 Caliber M8, Armor Piercing Incendiary (API) Cartridge, packed single round, is used in the M2 Machine Gun and the M107 and M82A1 Long Range Sniper Rifles. This cartridge is identified with a gray bullet tip. This is used in .50 Caliber Sniper training, a cost effective training round over the more expensive MK211 Long Range Sniper ammunition and minimizes training range limitations. This item is Code A, approved for service use. FY 2014 Base procurement dollars in the amount of $1.100 million supports the procurement of .468 million 50 Caliber M8, Armor Piercing Incendiary (API) Cartridges. FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations.

(E06810) The .50 Caliber M20 Armor Piercing Trace (API-T), is a single round for use in the M2/M3 Machine Gun variations and M82A1 and M107 rifles. The bullet is designed with an Armor Piercing steel tip with incendiary pyrotechnic fill designed to penetrate light armor vehicles and ignite contents. The M20 is also a traced round which permits observation of the bullet's trajectory via a visible red light signature to the point of impact. The cartridge is identified by a red tip with an aluminum colored ring to the rear of the red tip. This item is Code A, approved for service use.

(E06903) The .50 Caliber Cartridge, Armor Piercing Incendiary (API) M8 and Cartridge, Tracer M20 linked 4 to 1 in 100 round belts with the M9 link for use in the M2/M3 Machine Gun to defeat personnel and light armored targets. This item is Code A, approved for service use.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
E08000 - CTG, .50 Cal, All Types

ID Code (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items:

MDAP/MAIS Code(s):
(E07600) The M858 and M860 are .50 Caliber Short Range Training Ammunition (SRTA) Cartridges. The M858 is linked 4 to 1 with the M860 Tracer Cartridge. These training cartridges are fired from the M2/M3 Machine Gun when equipped with a special training bolt and amplifier. The amplifier is a barrel attachment used on the M2 .50 Caliber Machine Gun. The amplifier cycles the weapon chamber to the next round in order to fire. The M858 and M860 consist of a plastic cartridge case, a primer, propellant, and a plastic projectile. These cartridges have a maximum effective range of 750 meters. This item is Code A, approved for service use.

(E07700) The .50 Caliber Cartridge Ball M33 Link is linked in 100 round belts with the M9 link for use in the M2/M3 Machine Gun. This round is also used in function test firing of the M2/M3 Machine Gun. This item is Code A, approved for service use. FY 2014 Base procurement dollars in the amount of $9.600 million supports the procurement of 4.693 million .50 Caliber Cartridge Ball M33 Link cartridges.

(E07800) The .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 linked 4 to 1 in a 100 round belt with the M9 link for use in M2/M3 Machine Gun against unarmored targets. The tracer cartridge permits observation of the bullet's trajectory to the point of impact. M17 has a brown bullet tip. M33 has a plain bullet tip. This item is Code A, approved for service use. FY 2014 OCO Procurement dollars in the amount of $5.000 million supports the procurement of 2.577 million of .50 Caliber Cartridge, Ball M33 and Cartridge, Tracer M17 cartridges.

(E07900) The .50 Caliber High Pressure Test (HPT) Cartridge M1 is used in all .50 Caliber weapons for proof testing during manufacturing, test and repair. The cartridge has a stannic stained (silvered) case. This item is Code A, approved for service use. FY 2014 Base procurement dollars in the amount of $.200 million supports the procurement of .591 million .50 Caliber Blank Cartridge, M1A1 cartridges.

(E19700) The .50 Caliber Multi-Purpose (MP), MK211 MOD 0 (Single Round) is used in the M82A1 McMillan and M107 Barrett Sniper Rifles. The Grade A MK211 is a single round. The .50 Caliber Multi-Purpose Cartridge provides improved penetration performance against light armored vehicles and personnel. The projectile consists of a brass jacket surrounding a steel body and tungsten core with incendiary and high explosive charges. The cartridge is identified with a green and gray bullet tip. This item is Code A, approved for service use.

(E72191) The .50 Caliber Dummy Linked Cartridge is an inert cartridge used for M2A1 training exercises including ammunition/weapon familiarization, setting headspace and adjusting timing. The new Dummy, Drilled, Inert (DDI) configuration is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. The cartridges are linked in 100 round belts using the M9 link. This item is Code A, approved for service use.

(E72192) The .50 Caliber Dummy Single Round (DSR) is an inert cartridge used for M2A1 training exercises including ammunition/weapon familiarization, setting headspace and adjusting timing. The new Dummy, Drilled, Inert (DDI) configuration is both nickel plated and fluted for easy recognition and to distinguish the dummy ammunition visually from tactical ammunition. This item is Code A, approved for service use.

LI E08000 - CTG, .50 Cal, All Types

UNCLASSIFIED
Exhibit P-5, Cost Analysis: PB Amended 2014 Army


P-1 Line Item Nomenclature: E08000 - CTG, .50 Cal, All Types

Item Nomenclature (Item Number - Item Name, DODIC): E06903 - CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK

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<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>9.934</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>373.942</td>
<td>18.409</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |

* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

** This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

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</table>

| **Support Cost**                                  |       |                |         |         |              |             |              |
| PRODUCTION ENGINEERING                            |       | -              | -       | -       | -            | -           | -            | -           |
| QUALITY ASSURANCE                                 |       | -              | -       | -       | -            | -           | -            | -           |
| ENGINEERING INITIATIVES                           |       | -              | -       | -       | -            | -           | -            | -           |
| Total Support Cost                                 |       | 3.413          |         | 0.845   |              |             |              |             |
| Gross Weapon System Cost                          |       | 373.942        | 11.516  | 9.089   |              |             |              |             |

**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E06903 - CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK

**Date:** May 2013

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<td>†LOAD, ASSEMBLE, PACK (LAP)</td>
<td>2012</td>
<td>ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO</td>
<td>SS / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
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<td>†LOAD, ASSEMBLE, PACK (LAP)</td>
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**Remarks:**

FY 2012 BOX, METAL M2A1 IS AN AVERAGE UNIT COST.

This is a war reserve item used in combat. The procurement builds a war reserve inventory in accordance with the Army's procurement goals.
### UNCLASSIFIED

**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**

repeat 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**

repeat E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**

repeat E06903 - CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK

**Date:** May 2013

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<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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<td><strong>LOAD, ASSEMBLE, PACK (LAP)</strong></td>
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<td>ARMY</td>
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<td>2013</td>
<td>NAVSEA</td>
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<td>-</td>
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<td>2013</td>
<td>MC</td>
<td>6.010</td>
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<td>2013</td>
<td>CG</td>
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<td>MC</td>
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**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**

repeat 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**

repeat E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**

repeat E06903 - CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK

**Date:** May 2013
**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E06903 - CTG CAL .50 LINKED 4 API
M8/1 TRACER M17 w/M9 LINK

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(Units in Millions (* = < 500 units))

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**Fiscal Year 2014**

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**Calendar Year 2014**

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**Fiscal Year 2015**

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</table>

**LI E08000 - CTG, .50 Cal, All Types**

UNCLASSIFIED

Page 8 of 24

P-1 Line #4

46
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

### Appropriation / Budget Activity / Budget Sub Activity:

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

### P-1 Line Item Nomenclature:

| Item Nomenclature: | E08000 - CTG, .50 Cal, All Types |

### Item Nomenclature:

| Item Nomenclature: | E06903 - CTG CAL .50 LINKED 4 API M8/1 TRACER M17 w/M9 LINK |

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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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<th>Total After Oct 1</th>
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</table>

‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army


P-1 Line Item Nomenclature: E08000 - CTG, .50 Cal, All Types

UNCLASSIFIED

Date: May 2013

Resource Summary

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<tr>
<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>6,872,609</td>
<td>2,993,589</td>
<td>4,692,660</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions)

| FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 |

| Gross/Weapon System Unit Cost (Units in Millions) | - | - | - | - | - |

P-5 Remarks:

Initial Spares ($ in Millions)

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<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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Support Cost

Hardware Cost

Recurring Cost

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<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>LOAD, ASSEMBLE, PACK (LAP)</td>
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<td>-</td>
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<td>BOX METAL M2A1</td>
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Total Hardware Cost

Total Support Cost

Support Cost

Hardware Cost

Recurring Cost

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<th>ID CD</th>
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<th>FY 2013</th>
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</table>

Total Support Cost

Gross Weapon System Cost

LI E08000 - CTG, .50 Cal, All Types

UNCLASSIFIED

Army

Page 10 of 24

P-1 Line #4
### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E07100 - CTG CAL .50 BALL M33 LINK

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<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
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<td>ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO</td>
<td>SS / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
<td>Mar 2012</td>
<td>Oct 2012</td>
<td>6,872,609</td>
<td>1.91</td>
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<tr>
<td>†LOAD, ASSEMBLE, PACK (LAP)</td>
<td>2013</td>
<td>OLIN CORP WINCHESTER DIVISION / EAST ALTON, IL</td>
<td>C / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
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<td>2,993,589</td>
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<td>†LOAD, ASSEMBLE, PACK (LAP)</td>
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<td>ROCK ISLAND ARSENAL, IL</td>
<td>Mar 2014</td>
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<td>4,692,660</td>
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**Remarks:**
FY 2012 BOX, METAL M2A1 IS AN AVERAGE UNIT COST. FY 2014 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY12.

This is a training standard item used in training and combat. The FY 2014 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

FY 2014 Base Procurement dollars in the amount of $9.570 million supports the procurement of 4.693 million cartridges of the CTG. CAL .50 BALL M33 LINK.
## UNCLASSIFIED

### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**  2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:** E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:** E07100 - CTG CAL .50 BALL M33 LINK

**Date:** May 2013

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E07100 - CTG CAL .50 BALL M33 LINK

**Date:** May 2013

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#### Production Rates (Each / Month)

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#### Initial

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#### Reorder

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<td>2.500</td>
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† Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:** E08000 - CTG, .50 Cal, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):** E07200 - CTG CAL .50 BALL/1 TRACER W/M9 LINK

**Date:** May 2013

### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>997.411</td>
<td>89.305</td>
<td>86.918</td>
<td>65.188</td>
<td>5.000</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>997.411</td>
<td>89.305</td>
<td>86.918</td>
<td>65.188</td>
<td>5.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>997.411</td>
<td>89.305</td>
<td>86.918</td>
<td>65.188</td>
<td>5.000</td>
</tr>
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</table>

(Initial Spare ($ in Millions) | - | - | - | - | - | - |

Gross/Weapon System Unit Cost (Units in Dollars) | - | 2.55 | 3.39 | - | - | - |

(Initial Spare ($ in Millions) | - | - | - | - | - | - |

| FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012. |
| FY 2014 OCO# | 5.000 | 70.188 |

| FY 2014 Total | 70.188 |

### P-5 Remarks:

**LI E08000 - CTG, .50 Cal, All Types**

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Page 15 of 24  P-1 Line #4
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

#### Date: May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E07200 - CTG CAL .50 4 BALL/1 TRACER W/M9 LINK

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<tr>
<th>Cost Elements</th>
<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
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**Remarks:**

FY 2012 BOX, METAL M2A1 IS AN AVERAGE UNIT COST. FY 2014 LAP IS A DELIVERY ORDER TO THE EXISTING CONTRACT AWARDED IN FY12. This is a training standard item used in training and combat. The FY 2014 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals.

FY 2014 Base Procurement dollars in the amount of $65.188 million supports the procurement of 29.847 million cartridges of the CTG. CAL .50 4 BALL/1 TRACER W/M9 LINK. FY 2014 OCO Procurement dollars in the amount of $5.000 million supports the procurement of 2.577 million of the CTG. CAL .50 4 BALL/1 TRACER W/M9 LINK.
## Fiscal Year 2012

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### UNCLASSIFIED

#### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
- E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
- E07200 - CTG CAL .50 4 BALL/1 TRACER W/M9 LINK

**Cost Elements**
- (Units in Millions (* = < 500 units))

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<th>BAL DUE AS OF 1 OCT</th>
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**Fiscal Year 2014**

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**Fiscal Year 2015**

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**Fiscal Year 2016**

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<tr>
<td>2014</td>
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<td>39.494</td>
<td>39.494</td>
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### Date: May 2013

**Date:**
- May 2013
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

### P-1 Line Item Nomenclature:
- E08000 - CTG, .50 Cal, All Types

### Item Nomenclature:
- E07200 - CTG CAL .50 4 BALL/1 TRACER W/M9 LINK

### Production Rates (Each / Month) vs. Procurement Leadtime (Months)

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>Initial</th>
<th>Reorder</th>
</tr>
</thead>
<tbody>
<tr>
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<td>5.999</td>
<td>20.770</td>
<td>6</td>
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### Notes:
- Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.
- "A" in the Delivery Schedule indicated the Contract Award Date.
- Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army


P-1 Line Item Nomenclature: E08000 - CTG, .50 Cal, All Types

Item Nomenclature (Item Number - Item Name, DODIC): E19700 - Ctg Cal .50 Multi-Purpose, MK211 MOD 0 (SINGLE RD)

Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013‡</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>5.446</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>7.864</td>
<td>0.420</td>
<td>5.446</td>
<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>5.446</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |

Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - |

Cost Elements († indicates the presence of a P-5A) | ID CD | All Prior Years | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total |
<table>
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<td>Support Cost</td>
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<td>Total Support Cost</td>
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<td>Gross Weapon System Cost</td>
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P-5 Remarks:

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.
### Exhibit P-5A, Budget Procurement History and Planning

**PB Amended 2014 Army**  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**  
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**  
E19700 - Ctg Cal .50 Multi-Purpose, MK211 MOD 0 (SINGLE RD)

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<thead>
<tr>
<th>Cost Elements</th>
<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>ALLIANT TECH DBA LAKE CITY / INDEPENDENCE, MO</td>
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**Remarks:**  
FY 2012 BOX, METAL M2A1 IS AN AVERAGE UNIT COST.
**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E19700 - Ctg Cal .50 Multi-Purpose, MK211 MOD 0 (SINGLE RD)

**Date:** May 2013

**Cost Elements (Units in Millions (* = < 500 units))**

| M | C | O | R | FY | SERVICE | PROC | QTY | ACCEP | BAL | DUE TO 1 OC\_T | BAL AS OF 1 OC\_T | C | O | E | A | A | M | J | U | U | E | C | O | E | J | F | M | A | M | J | J | A | S | B |
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
E08000 - CTG, .50 Cal, All Types

Item Nomenclature:
E19700 - Ctg Cal .50 Multi-Purpose, MK211 MOD 0 (SINGLE RD)

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<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<tr>
<td>Load, Assemble, Pack (LAP)</td>
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<tr>
<td>1 2012 ARMY</td>
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<td>1 2012 AF</td>
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Note: Units in Millions (*) = < 500 units

Date: May 2013

Page 23 of 24
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
E08000 - CTG, .50 Cal, All Types

**Item Nomenclature:**
E19700 - Ctg Cal .50 Multi-Purpose, MK211 MOD 0 (SINGLE RD)

**Date:** May 2013

**Production Rates (Each / Month)**

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<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
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<td>.350</td>
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**Procurement Leadtime (Months)**

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<th>Initial</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<tr>
<td>1</td>
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<td>12</td>
<td>18</td>
<td>6</td>
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<td>7</td>
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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Program Elements for Code B Items:

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<tbody>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>892.781</td>
<td>109.807</td>
<td>152.154</td>
<td>69.533</td>
<td>69.798</td>
<td>71.758</td>
<td>126.452</td>
<td>129.992</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,682.275</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>892.781</td>
<td>109.807</td>
<td>152.154</td>
<td>69.533</td>
<td>69.798</td>
<td>71.758</td>
<td>126.452</td>
<td>129.992</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,682.275</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>892.781</td>
<td>109.807</td>
<td>152.154</td>
<td>69.533</td>
<td>69.798</td>
<td>71.758</td>
<td>126.452</td>
<td>129.992</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>1,682.275</td>
</tr>
</tbody>
</table>

### Description:

This budget line includes 30MM ALL TYPES:

- **(E06000)** The 30mm M848 is an inert training device. It physically mimics the M788 and M789 cartridges. It is used for training of proper handling and loading of ammunition and for non-firing system training and checkout of the 30mm M230 weapon prior to exposing soldiers to live ammunition. This item is Code A, approved for service use.

- **(E09900)** The 30mm M789 Lightweight High Explosive - Dual Purpose Cartridge is the only qualified combat cartridge for use in the Apache Helicopter's M230 Chain Gun. It is also used by SOCOM, fired from the MH-60 Blackhawk helicopter. The M789 cartridge consists of a projectile containing explosive, a shaped charge liner, a M759 point-detonating fuze, aluminum cartridge case, propellant and a PA520 electric primer. The shaped charge allows the M789 to defeat light armor, and the steel projectile body provides an anti-personnel capability. M789 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use.

- **(E10100)** The 30mm M788 Lightweight 30mm Target Practice cartridge is the only qualified training cartridge for use in the Apache and Blackhawk Helicopter's M230 Chain Gun. The M788 consists of an inert projectile, propellant utilizes a PA520 electric primer and a lightweight aluminum cartridge case. M788 cartridges are packed in Bulk Ammunition Strips (BAS), 110 cartridges per M592 container. This item is Code A, approved for service use.

- **(E06100)** The 30mm HPT M883 is a High Pressure Test round used exclusively for acceptance testing of 30mm barrels. One M883 is fired as a "proof" round on each new barrel. If the barrel does not rupture it is considered good for fielding. This item is Code A, approved for service use.
### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

### P-1 Line Item Nomenclature:
ER8120 - CTG, 30MM, ALL TYPES

#### Date:
May 2013

#### Justification:
FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations.

CTG 30MM DUMMY M848 - This is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $2.000 million supports the procurement of .079 million M848 cartridges.

CTG 30MM HPT M883 - This is a High Pressure Test round used exclusively for acceptance training of 30mm barrels. The FY 2014 request builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $4.000 million supports the procurement of .035 million M883 cartridges.

CTG 30MM HEDP M789 - This is a training standard item used in training and combat. The FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $31.439 million supports the procurement of .169 million M789 cartridges. FY 14 OCO procurement dollars in the amount of $60.000 million supports the procurement of .426 million M883 cartridges.

CTG 30MM TP M788 - This is a training unique item not used in combat. The FY 2014 request supports annual training and builds a depot level in accordance with the Army's procurement goals. FY 2014 procurement dollars in the amount of $32.094 million supports the procurement of .879 million M788 cartridges.

---

### Item Schedule

<table>
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<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>ID CD</th>
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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Qty (Each)</td>
<td>Total Cost ($)</td>
<td>Unit Cost ($)</td>
<td>Qty (Each)</td>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

---

**UNCLASSIFIED**

LI ER8120 - CTG, 30MM, ALL TYPES

**UNCLASSIFIED**

Army

Page 2 of 14

P-1 Line #7

64
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Date: May 2013


P-1 Line Item Nomenclature: ER8120 - CTG, 30MM, ALL TYPES

Item Nomenclature (Item Number - Item Name, DODIC): E09900 - CTG 30MM HEDP M789

Resource Summary

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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>60.000</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>102.007</td>
<td>110.383</td>
<td>31.439</td>
<td>60.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>612.850</td>
<td>102.007</td>
<td>110.383</td>
<td>31.439</td>
<td>60.000</td>
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Initial Spares ($ in Millions)

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<th>All Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>23.776</td>
<td>60.000</td>
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Support Cost

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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>110.383</td>
<td>31.439</td>
<td>60.000</td>
</tr>
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</table>

P-5 Remarks:

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)
### UNCLASSIFIED

**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01:  
Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**  
ER8120 - CTG, 30MM, ALL TYPES

**Item Nomenclature:**  
E09900 - CTG 30MM HEDP M789

### Cost Elements

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<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>†COMPLETE ROUND</td>
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### Remarks:

This is a training standard item used in training and combat. FY 2014 request supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. Type Classification Date: 1962
**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
- ER8120 - CTG, 30MM, ALL TYPES

**Item Nomenclature:**
- E09900 - CTG 30MM HEDP M789

**Date:** May 2013

**Cost Elements**

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**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
ER8120 - CTG, 30MM, ALL TYPES

**Item Nomenclature:**
E09900 - CTG 30MM HEDP M789

**Date:** May 2013

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**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
ER8120 - CTG, 30MM, ALL TYPES

**Item Nomenclature:**
E09900 - CTG 30MM HEDP M789

**Date:** May 2013

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<td>3 2013 ARMY 747.618</td>
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**Cost Elements**

- **COMPLETE ROUND**
  - **TOTAL**
    - **881.156**

**UNCLASSIFIED**

**Army**

**Page 7 of 14**

**P-1 Line #7**
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:**
ER8120 - CTG, 30MM, ALL TYPES

**Item Nomenclature:**
E09900 - CTG 30MM HEDP M789

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

**P-1 Line Item Nomenclature:** ER8120 - CTG, 30MM, ALL TYPES

**Item Nomenclature (Item Number - Item Name, DODIC):** E10100 - CTG 30MM TP M788

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<th>FY 2014 OCO</th>
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<td>41.758</td>
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**P-5 Remarks:**

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost (Units in Dollars)

**Hardware Cost  Recurring Cost**

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Remarks:
This is a training unique item not used in combat. FY 2014 procurement supports annual training and builds a depot level in accordance with the Army's procurement goals. Type Classification Date: 1982
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
ER8120 - CTG, 30MM, ALL TYPES

Item Nomenclature:
E10100 - CTG 30MM TP M788

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Note: The table above shows the budget production schedule for the Army, detailing the cost elements and fiscal years from 2012 to 2013, with specific focus on the procurement of ammunition.
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
ER8120 - CTG, 30MM, ALL TYPES

Item Nomenclature:
E10100 - CTG 30MM TP M788

<table>
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<tr>
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<th>Fiscal Year 2014</th>
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<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<td><strong>Cost Elements</strong></td>
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<tr>
<td>(Units in Thousands)</td>
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<tr>
<td>M C O R # FY SERVICE²</td>
<td>PROC QTY</td>
<td>ACcep PRIOR TO 1 O C TO 1 OCT</td>
<td>BAL DUE AS OF 1 OCT</td>
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<td>18.028 18.028</td>
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<td>18.028 18.028</td>
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<td>18.028 18.028</td>
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Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
ER8120 - CTG, 30MM, ALL TYPES

Item Nomenclature:
E10100 - CTG 30MM TP M788

<table>
<thead>
<tr>
<th>Cost Elements (Units in Thousands)</th>
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<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<td>ACCEP PRIOR TO 1 OCT 2015</td>
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73.284 73.284 73.284 73.284 73.284 73.284 73.284
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 30: Small/Medium Cal Ammunition

P-1 Line Item Nomenclature:
ER8120 - CTG, 30MM, ALL TYPES

Item Nomenclature:
E10100 - CTG 30MM TP M788

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<th>MFR Name - Location</th>
<th>MSR</th>
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<th>MAX</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
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<td>ALT Prior to Oct 1</td>
<td>ALT After Oct 1</td>
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<td>GENERAL DYNAMICS ORD &amp; TAC - MARION, IL</td>
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<td>120.000</td>
<td>200.000</td>
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<tr>
<td>2</td>
<td>ALLIANT TECHSYSTEMS INC. - PLYMOUTH, MN</td>
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<td>120.000</td>
<td>200.000</td>
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<td>6</td>
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<tr>
<td>3</td>
<td>TO BE SELECTED - TBS01</td>
<td>20.000</td>
<td>120.000</td>
<td>200.000</td>
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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:
(I) 0
(II) 0
E89600 - 60MM Mortar, All Types

## Description:

### 60MM Description:

The 60mm Mortar cartridges are designed for use with the M224A1 Lightweight Company Mortar System (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The short minimum range of the M224 makes the 60mm mortar ammunition well suited for close protective fires against an assaulting enemy, for block-to-block fighting in cities, and combat over close terrain with restricted visibility.

### E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

**SYSTEM DESCRIPTION:**

The M721 cartridge is a fin stabilized, mortar cartridge that consists of a M776 Mechanical Time Superquick (MTSQ) fuze, a thin wall steel body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces visible light illumination. This visible light illumination allows for monitoring of enemy activities and adjustment of fire at greater observation distances during night operations. It also provides a means for day/night signaling. It is particularly useful in combined operations with allies who may not have night vision devices (NVDS). The M721/M767 Illumination Cartridges (Range 200 meter minimum to 3,200 meter maximum) are ballistically similar to the M720A1 HE Cartridge, allowing a gun to illuminate and fire on the same target without adjustments. These items are Code A, approved for service use.

### E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE

**SYSTEM DESCRIPTION:**

The 60mm Mortar cartridges are designed for use with the M224A1 Lightweight Company Mortar System (LWCMS) in all light infantry battalions including Airborne, Air Assault and Ranger. The short minimum range of the M224 makes the 60mm mortar ammunition well suited for close protective fires against an assaulting enemy, for block-to-block fighting in cities, and combat over close terrain with restricted visibility.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar

P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types

Ammunition

<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDAP/MAIS Code(s):</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The M767 cartridge is a fin stabilized, mortar cartridge that consists of a M776 Mechanical Time Superquick (MTSQ) fuze, a thin wall steel body tube and aluminum tail cone that contains the payload (parachute and canister), and a fin assembly that contains the ignition cartridge and propelling charges. The payload is base ejected and upon ignition produces infrared (IR) illumination. The advantage of the infrared over conventional illumination is that there is minimal visible light. This reduces the possibility of exposing forward friendly troop positions while also allowing covert adjustment of fire at greater observation distances through use of passive Night Vision Devices (NVD). The M721/M767 Illumination Cartridges (Range 300 meter minimum to 3,175 meter maximum) are ballistically similar to the M720A1 HE Cartridge, allowing a gun to illuminate and fire on the same target without adjustments.

This item is Code A, approved for service use.

E72199 - CTG, MORTAR 60MM HE EnFrag XM1061 (IM) W/M734A1 MOF
SYSTEM DESCRIPTION:
The XM1061, 60mm High Explosive Enhanced Fragmentation (EF) cartridge with multi-option fuze is used against personnel and a higher category of materiel target sets providing both fragmentation and blast effect. This round uses the insensitive main charge explosive PBNX-110. Lethality is maintained by an enhanced fragmentation warhead. The XM1061 EF uses the highly reliable and countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality.
The XM1061-E is Code B, scheduled for Type Classification 2QFY13.

E93900 - CTG, MORTAR, 60MM HE M720 SERIES W/MOFM
SYSTEM DESCRIPTION:
The M720A1 60mm High Explosive Cartridge with Multi-Option Fuze is used against personnel and materiel providing both fragmentation and blast effects. The 60mm High Explosive Cartridges (Range 70 meter minimum to 3,400 meter maximum) are Insensitive Munitions (IM) enhanced, HE rounds. Lethality is maintained by using a high fragmentation steel (HF-1) shell body loaded with approximately 2lbs. of an IM explosive. The M720A1 also incorporates the highly reliable and countermeasure resistant M734A1 multi-option fuze. When the fuze is set in the proximity mode, it functions at a height over the target that is optimized for lethality.
This item is Code A, approved for service use.

E92900 - CTG, MORTAR 60MM HE M768 W/PD FUZE
SYSTEM DESCRIPTION:
The 60mm High Explosive Cartridges are Insensitive Munitions (IM) enhanced, HE rounds. The M786 High Explosive cartridge (Range 70 meter minimum to 3,400 meter maximum) is used with the new M783 dual safety, point detonating/delay fuze, tail fin assembly, and high fragmentation steel (HF-1) shell body loaded with approximately 2lbs. of an IM explosive. This round is used primarily in training because it is significantly less expensive than the M720A1, the preferred war fighting round. However, the M768 is lethal and can be used in combat.
This item is Code A, approved for service use.

E92200 - CTG Mortar 60MM FRPC M769 SERIES W/PRACTICE FUZE
SYSTEM DESCRIPTION:
The M769 is a low-cost, full range, practice round that will replace a percentage of the standard HE rounds used in 60mm mortar training. The M769 FRPC (Range 70 meter minimum to 3,500 meter maximum) has been designed to provide the user with realistic training at a fraction of the cost. It is identical in shape, size and weight to the M720/M720A1 HE cartridges. The flash, bang and smoke signature provided by the M775 fuze is channeled to exhaust holes in the rear of the cartridge through the use of a center vent tube.
This item is Code A, approved for service use.

E98600 - CTG, Mortar, 60MM WP SMOKE M722 SERIES W/PD FUZE
SYSTEM DESCRIPTION:
The M722A1 60mm Smoke cartridge is designed as a spotting/marking round. The steel projectile is bulk loaded with white phosphorus. When the fuze functions, it detonates the M85 burster, which ruptures the projectile and disperses the white phosphorus. The M722A1 WP Smoke (Range 200 meter minimum to 3,200 meter maximum) replaced the M745 mechanical point-detonating fuze with the reliable, safe, and cost effective electronic M783 Point Detonating (PD) and Delay (DLY) fuze.
This item is Code A, approved for service use.
### Item Schedule

<table>
<thead>
<tr>
<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Unit Cost ($ )</td>
<td>Qty (Each)</td>
<td>Total Cost ($ M )</td>
<td>Unit Cost ($ )</td>
<td>Qty (Each)</td>
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<td>E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/ MTSQ FUZE</td>
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<td>75.420</td>
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<td>E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE</td>
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<td>-</td>
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<td>E92200 - CTG Mortar 60MM FRPC M769 SERIES W/ PRACTICE FUZE</td>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.*

**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

### Justification:

**FY 2014 Base** procurement dollars in the amount of $38.029 million supports approximately 94,488 cartridges.

**FY 2014 OCO** procurement dollars in the amount of $5.00 million supports 11,718 cartridges.

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations.
**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

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## Resource Summary

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<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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Note: The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

Initial Spares ($ in Millions)

Hardware Cost

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>-</td>
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<td>† BODY TUBE, 60MM ILLUM</td>
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<td>† TAIL CONE, 60MM ILLUM</td>
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<td>† M702 IGNITION CARTRIDGE</td>
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<td>† PROPELLANT CHARGE, M235</td>
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<tr>
<td>† FIBER CONTAINER PA 175, 60MM</td>
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<td>† METAL CONTAINER PA191, 60MM</td>
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Hardware Recurring Cost

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
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<td>Quantity (Each)</td>
<td>Total Cost ($M)</td>
<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($M)</td>
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Page 4 of 50
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

#### P-1 Line Item Nomenclature:
E89600 - 60MM Mortar, All Types

#### Item Nomenclature (Item Number - Item Name, DODIC):
E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

#### Date:
May 2013

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Quantity</td>
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<td>Unit Cost ($)</td>
<td>Quantity</td>
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**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning:

**PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**

E89600 - 60MM Mortar, All Types

**Item Nomenclature:**

E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

<table>
<thead>
<tr>
<th>Cost Elements († indicates the presence of a P-21)</th>
<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tbody>
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</table>

**Remarks:**

M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. 60MM Parachutes: IDIQ awarded (Aug 10) to multiple contractors. Requirements will be competed among the following contractors: Yoland, Jamaica, NY; NAA, Roxboro, NC. 60MM Illum Body Tubes and Tail Cones: IDIQ awarded in (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico, Wilkes Barre, PA and Lewis Engineering, Marshall, TX Ignition Cartridges: IDIQ awarded (June 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; Day and Zimmerman, Camden, AR and American Ordnance, Middle ton, IA. M235 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL.
<table>
<thead>
<tr>
<th>Date: May 2013</th>
</tr>
</thead>
</table>

**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01:
- Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
- E89600 - 60MM Mortar, All Types
- Item Nomenclature: E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

### Cost Elements

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<tr>
<th></th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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</thead>
<tbody>
<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)</td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### LOAD, ASSEMBLE, PACK (LAP)

| O # | FY | SERVICE | PROC QTY | ACCEP PRIOR TO 1 OCT 2012 | BAL DUE AS OF 1 OCT | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | B | L |

**LI E89600 - 60MM Mortar, All Types**

**UNCLASSIFIED**

Page 7 of 50

P-1 Line #9

---

83
<table>
<thead>
<tr>
<th>Cost Elements (Units in Thousands)</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<td></td>
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<tr>
<td>O 1 CO 2013 FY 2013 8.270</td>
<td>8.270</td>
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<td>ACCEP PRIOR BAL DUE AS OF 1 OCT</td>
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</table>

Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature:
E89600 - 60MM Mortar, All Types

Item Nomenclature:
E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

Date: May 2013
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E70400 - CTG, MORTAR, 60MM ILLUM VL M721 W/MTSQ FUZE

**Date:** May 2013

#### Production Rates (Each / Month)

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<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
<th>Reorder</th>
<th>Total After Oct 1</th>
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<tr>
<td>1</td>
<td>PINE BLUFF ARSENAL - PINE BLUFF, AR</td>
<td>20.000</td>
<td>20.000</td>
<td>32.000</td>
<td>6</td>
<td>6</td>
<td>24</td>
<td>30</td>
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</table>

**Remarks:**
- PINE BLUFF PRODUCTION LINE SHARED WITH OTHER 60 & 81MM SMOKE & ILLUM ITEMS
- "A" in the Delivery Schedule indicated the Contract Award Date.
- Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>10.104</td>
<td>10.107</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>10.107</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>10.107</td>
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(For years labeled FY 2012, FY 2013, FY 2014 Base, FY 2014 OCO, FY 2014 Total.

### Cost Elements

**Hardware Cost**

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<th>FY 2013</th>
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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
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<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
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<td>† LOAD, ASSEMBLY, PACK (LAP)</td>
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<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>† FUZE MOFM, M734A1</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>† WARHEAD ASSEMBLY, 60MM M1061</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>† M702 IGNITION CARTRIDGE</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>† PROPELLANT CHARGE, M236</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>† FIN ASSEMBLY M21</td>
<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
</tr>
<tr>
<td>† METAL PARTS ENHANCED FRAGMENTATION</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Total Recurring Cost**

| - | - | - | - | - | - | - | 6.626 | - | 8.979 |

**Total Hardware Cost**

| - | - | - | - | - | - | - | 6.626 | - | 8.979 |

**Support Cost**

| PRODUCTION ENGINEERING | - | - | - | - | - | - | - | - | 0.708 | - | - | 1.011 |

| QUALITY ASSURANCE | - | - | - | - | - | - | - | 0.005 | - | - | 0.002 | - | - | - | 0.002 |

---

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## FY 2013 Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature:
E89600 - 60MM Mortar, All Types

Date: May 2013

Item Nomenclature (Item Number - Item Name, DODIC):
E72199 - CTG, MORTAR 60MM HE
EnFrag XM1061(IM)/W/M734A1 MOF

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<td>-</td>
<td>10.107</td>
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P-5 Remarks:
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<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types

Item Nomenclature: E72199 - CTG, MORTAR 60MM HE EnFrag XM1061(IM)W/M734A1 MOF

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<th>C</th>
<th>O</th>
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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Qty (Each)</th>
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Remarks:

Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; Day and Zimmerman, Camden AR and American Ordnance, Middletown, IA. M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. M236 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA; and General Dynamics, Marion, IL.
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<thead>
<tr>
<th>Cost Elements (Units in Thousands)</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)</td>
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<tr>
<td>O</td>
<td>C</td>
<td>R</td>
<td>FY</td>
<td>SERVICE</td>
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<td>1</td>
<td>2014</td>
<td>ARMY</td>
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Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature:
- E89600 - 60MM Mortar, All Types

Item Nomenclature:
- E72199 - CTG, MORTAR 60MM HE EnFrag XM1061(IM)W/M734A1 MOF

Date: May 2013

UNCLASSIFIED

LI E89600 - 60MM Mortar, All Types

Army

Page 14 of 50

P-1 Line #9
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E72199 - CTG, MORTAR 60MM HE EnFrag XM1061(IM)W/M734A1 MOF

**Date:** May 2013

### Cost Elements (Units in Thousands)

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<th>Service</th>
<th>Proc</th>
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**Exhibit P-21, Budget Production Schedule:**

**P-1 Line #9**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E72199 - CTG, MORTAR 60MM HE EnFrag XM1061(IM)W/M734A1 MOF

**Cost Elements (Units in Thousands)**

<table>
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<th>Fiscal Year 2015</th>
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<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<td>M</td>
<td>O</td>
<td>C</td>
<td>N</td>
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<tr>
<td>1 2013 ARMY</td>
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**UNCLASSIFIED**

**Army**

**Page 15 of 50**

**P-1 Line #9**
<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
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<td>10.000</td>
<td>10.000</td>
<td>30.000</td>
<td>6</td>
<td>ALT Prior to Oct 1</td>
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</table>

- ALT Prior to Oct 1: 6
- ALT After Oct 1: 6
- Mfg PLT: 24
- Total After Oct 1: 30

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,999, all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,999, all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

Resource Summary

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<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>-</td>
<td>8.599</td>
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<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>-</td>
<td>8.599</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>-</td>
<td>8.599</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types

Item Nomenclature (Item Number - Item Name, DODIC): E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

Item Nomenclature (Item Number - Item Name, DODIC): E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE

Date: May 2013
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE

**Date:** May 2013

**Cost Elements († indicates the presence of a P-5A)**

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<th>FY 2012</th>
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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Quantity</td>
<td>Total Cost ($M)</td>
<td>Unit Cost ($M)</td>
<td>Quantity</td>
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**P-5 Remarks:**

LI E89600 - 60MM Mortar, All Types

**UNCLASSIFIED**

Page 18 of 50   P-1 Line #9
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<td>IR ILLUM CANNISTER, 60MM</td>
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Remarks:
M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. 60MM Parachutes: IDIQ awarded (Aug 10) to multiple contractors. Requirements will be competed among the following contractors: Yoland, Jamaica, NY; NAA, Roxboro, NC. 60MM Illum Body Tubes and Tail Cones: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico, Wilkes Barre, PA; Lewis Engineering, Marshall, TX. Ignition Cartridges: IDIQ awarded (June 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; M235 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR and American Ordnance, Middletown, IA; M235 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL; M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. 60MM Parachutes: IDIQ awarded (Aug 10) to multiple contractors. Requirements will be competed among the following contractors: Yoland, Jamaica, NY; NAA, Roxboro, NC. 60MM Illum Body Tubes and Tail Cones: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico, Wilkes Barre, PA.
<table>
<thead>
<tr>
<th>Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army</th>
<th>Date: May 2013</th>
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</thead>
<tbody>
<tr>
<td>Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition</td>
<td>P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types</td>
</tr>
<tr>
<td>Item Nomenclature: E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE</td>
<td></td>
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</table>

and Lewis Engineering, Marshall, TX. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA and American Ordnance, Middletown, IA.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE

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**Cost Elements**

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<th>Calendar Year 2013</th>
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<th>Calendar Year 2014</th>
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<td>ARMY</td>
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</tr>
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**Date:** May 2013
### Cost Elements (Units in Thousands)

|     | 1    | 2013 | ARMY    | 13.831      | -       | 13.831 | - | - | - | - | - | - | - | - | - | - | - | 13.831 | - | - | - | - | - | - | - | - | - | - | - | - | - |

#### P-1 Line Item Nomenclature:
- **E89600 - 60MM Mortar, All Types**

#### Item Nomenclature:
- **E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE**

#### Load, Assemble, Pack (LAP)
- **LOAD, ASSEMBLE, PACK (LAP)**

#### Fiscal Year 2015

#### Fiscal Year 2016

#### Calendar Year 2015

#### Calendar Year 2016

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**UNCLASSIFIED**
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E85700 - CTG, MORTAR, 60MM ILLUM IR M767 SERIES W/MTSQ FUZE

**Date:** May 2013

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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<th>Mfg PLT</th>
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**Remarks:**
PRODUCTION LINE SHARED WITH OTHER 60 & 81MM SMOKE & ILLUM ITEMS

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

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<th></th>
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<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<tr>
<td>Procurement Quantity</td>
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<td>14,184</td>
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<td>87.337</td>
<td>3.648</td>
<td>3.668</td>
<td>7.572</td>
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<tr>
<td>Less PY Advance Procurement</td>
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<td>3.668</td>
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<td>Plus CY Advance Procurement</td>
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<td>7.572</td>
<td>-</td>
<td>7.572</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Cost Elements

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<tr>
<th>ID CD</th>
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<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>Quantity (Each)</td>
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<td>Hardware Cost</td>
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<tr>
<td></td>
<td>Recurring Cost</td>
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<td>0.688</td>
<td>23.78</td>
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<td>† Shell Body, 60MM FRPC</td>
<td>-</td>
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<td>47.85</td>
<td>14,751</td>
<td>0.706</td>
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<td>0.296</td>
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E92200 - CTG Mortar 60MM FRPC M769 SERIES W/PRACTICE FUZE

**Date:** May 2013

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>ID CD</td>
<td></td>
<td>Unit Cost ($ M)</td>
<td>Unit Cost ($ M)</td>
<td>Unit Cost ($ M)</td>
<td>Unit Cost ($ M)</td>
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<td>Total Cost  (Each)</td>
<td>Total Cost  (Each)</td>
<td>Total Cost  (Each)</td>
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<tr>
<td></td>
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<td>87.337</td>
<td>3.648</td>
<td>3.668</td>
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**P-5 Remarks:**

Gross Weapon System Cost
### Exhibit P-5A, Budget Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E92200 - CTG Mortar 60MM FRPC M769 SERIES W/PRACTICE FUZE

<table>
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<tr>
<th>Cost Elements</th>
<th>O/C/O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tr>
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<td>Jun 2014</td>
<td>14,751</td>
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<td>Dec 2013</td>
<td>Jun 2015</td>
<td>45,705</td>
<td>9.61</td>
<td>Y</td>
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</table>

**Remarks:**
M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. FRPC LAP: IDIQ awarded (Feb 11) to multiple contractors. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA and American Ordnance, Middletown, IA.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
- 2034A: Procurement of Ammunition, Army / BA 01:
  - Ammunition / BSA 33: Mortar Ammunition

#### P-1 Line Item Nomenclature:
- E89600 - 60MM Mortar, All Types

#### Item Nomenclature:
- E92200 - CTG Mortar 60MM FRPC M769 SERIES W/PRACTICE FUZE

#### Date: May 2013

<table>
<thead>
<tr>
<th>Cost Elements (Units in Thousands)</th>
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<th>Calendar Year 2013</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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<td><strong>BAL DUE AS OF 1 OCT</strong></td>
<td><strong>O N D J F M A M J J A S O N D J F M A M J J A S</strong></td>
<td><strong>B</strong></td>
</tr>
<tr>
<td><strong>LOAD, ASSEMBLE, PACK (LAP)</strong></td>
<td><strong>O C E A E A P A U U U E C O E A E A P A U U U E</strong></td>
<td><strong>C N B R R Y N L G P T V C H N B R R Y N L G P L</strong></td>
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<td><strong>1 2014 ARMY</strong></td>
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**Load, Assemble, Pack (LAP)**
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
- E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
- E92200 - CTG Mortar 60MM FRPC M769 SERIES W/PRACTICE FUZE

**Date:** May 2013

#### Cost Elements

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**Load, Assemble, Pack (LAP)**

|     |     |       |       |       |       |       |                      |
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### Fiscal Year 2015

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### Fiscal Year 2016

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</table>

**Total**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01:
  - Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
- E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
- E92200 - CTG Mortar 60MM FRPC M769 SERIES W/PRACTICE FUZE

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<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<tbody>
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<td>24</td>
<td>6</td>
<td>6</td>
<td>18</td>
<td>24</td>
</tr>
</tbody>
</table>

‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types

Item Nomenclature (Item Number - Item Name, DODIC): E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

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<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
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<td>Plus CY Advance Procurement ($M)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) - - - - - -
Gross/Weapon System Unit Cost (Units in Dollars) - - 559.64 - -

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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## P-5 Details

### Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01:
  - Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
- E89600 - 60MM Mortar, All Types

**Exhibit P-5, Cost Analysis:**

**Item Nomenclature (Item Number - Item Name, DODIC):**
- E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

**Date:** May 2013

#### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Item Nomenclature (Item Number - Item Name, DODIC):**
- E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

### Cost Elements

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**P-5 Remarks:**

-lá
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

#### P-1 Line Item Nomenclature:
E89600 - 60MM Mortar, All Types

#### Item Nomenclature:
E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

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<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
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**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

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**Remarks:**
M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. HE Shell Bodes: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico Industries, Wilkes Barre, PA; Modern Industries, Erie, PA; T&A Screw Products, Terryville, CT; HE LAP: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman Camden, AR; Day and Zimmerman Parsons, KS; General Dynamics, LeGardeur, Canada; American Ordnance, Middletown, IA. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA and American Ordnance, Middletown, IA. M235 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman Camden, AR; American Ordnance Middletown, IA, and Genderal Dynamics Marion, IL.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
- E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
- E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

**Cost Elements (Units in Thousands) | Fiscal Year 2012 | Calendar Year 2012 | Fiscal Year 2013 | Calendar Year 2013**

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

#### P-1 Line Item Nomenclature:
- E89600 - 60MM Mortar, All Types

#### Item Nomenclature:
- E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

#### Cost Elements

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#### P-1 Line #9

UNCLASSIFIED
**Exhibit P-21, Budget Production Schedule**: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity**: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature**: E89600 - 60MM Mortar, All Types

**Item Nomenclature**: E92900 - CTG MORTAR 60MM HE M768 W/PD FUZE

**Date**: May 2013

---

### Production Rates (Each / Month)

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types

Item Nomenclature (Item Number - Item Name, DODIC): E93900 - CTG, MORTAR, 60MM HE M720 SERIES W/MOFM

Resource Summary

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<th>Prior Years</th>
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<th>FY 2014 Base</th>
<th>FY 2014 OCO#</th>
<th>FY 2014 Total</th>
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<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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<td>17.443</td>
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</tbody>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions)

| FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 |
| FY 2014 Total |

Cost Elements († indicates the presence of a P-5A)

Hardware Cost

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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E93900 - CTG, MORTAR, 60MM HE M720 SERIES W/MOFM

**Date:** May 2013

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<td>Gross Weapon System Cost</td>
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**P-5 Remarks:**

LI E89600 - 60MM Mortar, All Types

Army
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<th>Date of First Delivery</th>
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<th>Unit Cost ($)</th>
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Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

P-1 Line Item Nomenclature: E89600 - 60MM Mortar, All Types

Item Nomenclature: E93900 - CTG, MORTAR, 60MM HE M720 SERIES W/MOFM

M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. HE Shell Bodies: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Medico Industries, Wilkes Barre, PA; Modern Industries, Erie, PA; T&A Screw Products, Terryville, CT. HE LAP: IDIQ awarded (Aug 11) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; Day and Zimmerman, Parsons, KS; General Dynamics, LeGardeur, Canada; American Ordnance, Middletown, IA. Ignition Cartridges: IDIQ awarded (Jun 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; Day and Zimmerman, Camden, AR and American Ordnance, Middletown, IA. M235 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; General Dynamics, Marion, IL; American Ordnance, Middletown, IA.
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<th>Cost Element</th>
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<td>2013</td>
<td>ARMY</td>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**
E93900 - CTG, MORTAR, 60MM HE M720 SERIES W/MOFM

**Date:** May 2013

---

**Cost Elements**

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**LI E89600 - 60MM Mortar, All Types**

**Army**
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**  
E89600 - 60MM Mortar, All Types

**Item Nomenclature:**  
E93900 - CTG, MORTAR, 60MM HE M720 SERIES W/MOFM

<table>
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<th>MAX</th>
<th>ALT Prior to Oct 1</th>
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<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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</table>

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E98600 - Ctg, Mortar, 60MM WP SMOKE M722 SERIES W/PD FUZE

---

### Resource Summary

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<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
<td>11.471</td>
<td>7.484</td>
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<td>-</td>
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</tr>
</tbody>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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### Cost Elements

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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
E89600 - 60MM Mortar, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E98600 - Ctg, Mortar, 60MM WP SMOKE M722 SERIES W/PD FUZE

**Date:** May 2013

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**P-5 Remarks:**
**Exhibit P-5A, Budget Procurement History and Planning:**

**PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**

E89600 - 60MM Mortar, All Types

**Item Nomenclature:**

E98600 - Ctg, Mortar, 60MM WP SMOKE M722 SERIES W/PD FUZE

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**Remarks:**

M27 Fins: IDIQ awarded (Feb 11) to multiple contractors. Requirements will be competed among the following contractors: Gayston, Springboro, OH; Flexible Concepts, Elkhart, IN; Cerebrus, Morris Plains, NJ. Ignition Cartridges: IDIQ awarded (June 12) to multiple contractors. Requirements will be competed among the following contractors: Pocal Industries, Scranton, PA; Day and Zimmerman, Camden, AR and American Ordnance, Middletown, IA. M204 Propellant Charges: IDIQ awarded (Dec 12) to multiple contractors. Requirements will be competed among the following contractors: Day and Zimmerman, Camden, AR; American Ordnance, Middletown, IA and General Dynamics, Marion, IL.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 33: Mortar Ammunition

#### P-1 Line Item Nomenclature:
- **E89600 - 60MM Mortar, All Types**
- **Item Nomenclature:**
  - E98600 - Ctg, Mortar, 60MM WP SMOKE
  - M722 SERIES W/PD FUZE

#### Cost Elements (Units in Thousands)

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#### Calendar Year 2015

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### Item Nomenclature:

- **P-1 Line Item Nomenclature:**
  - E89600 - 60MM Mortar, All Types

- **Item Nomenclature:**
  - E98600 - Ctg, Mortar, 60MM WP SMOKE
  - M722 SERIES W/PD FUZE

---

**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

**P-1 Line Item Nomenclature:**
- E98600 - 60MM Mortar, All Types

**Item Nomenclature:**
- E98600 - Ctg, Mortar, 60MM WP SMOKE
- M722 SERIES W/PD FUZE

**Date:** May 2013

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**UNCLASSIFIED**

**Page 49 of 50**

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**P-1 Line #9**
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 33: Mortar Ammunition

### P-1 Line Item Nomenclature:
E89600 - 60MM Mortar, All Types

### Item Nomenclature:
E98600 - Ctg, Mortar,60MM WP SMOKE M722 SERIES W/PD FUZE

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<th>ALT After Oct 1</th>
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<td>20,000</td>
<td>32,000</td>
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<td>30</td>
<td>6</td>
<td>4</td>
<td>24</td>
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### Production Rates (Each / Month)

### Procurement Leadtime (Months)

Remarks:

- PRODUCTION LINE SHARED WITH OTHER 60 & 81MM SMOKE & ILLUM ITEMS
- "A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499, all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499, all quantities are shown in millions (rounded to the nearest million).
**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army  
**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition  
**P-1 Line Item Nomenclature:**  
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

<table>
<thead>
<tr>
<th>ID Code</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
</tr>
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<tbody>
<tr>
<td>A (A=Service Ready, B=Not Service Ready)</td>
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**Resource Summary**

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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>3,252.213</td>
<td>103.227</td>
<td>80.817</td>
<td>39.825</td>
<td>10.000</td>
<td>49.825</td>
<td>42.142</td>
<td>36.300</td>
<td>62.737</td>
<td>54.624</td>
<td>-</td>
<td>3,681.885</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>3,252.213</td>
<td>103.227</td>
<td>80.817</td>
<td>39.825</td>
<td>10.000</td>
<td>49.825</td>
<td>42.142</td>
<td>36.300</td>
<td>62.737</td>
<td>54.624</td>
<td>-</td>
<td>3,681.885</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
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<td>3,252.213</td>
<td>103.227</td>
<td>80.817</td>
<td>39.825</td>
<td>10.000</td>
<td>49.825</td>
<td>42.142</td>
<td>36.300</td>
<td>62.737</td>
<td>54.624</td>
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<td>3,681.885</td>
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</tbody>
</table>

* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
* # This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**

E15101 - Artillery Cartridges, 75MM And 105MM, All Types

This budget line includes Cartridge, Artillery, 75mm & 105mm, All Types.

E15200 - CTG, ARTY, 75MM BLANK, M337A1

SYSTEM DESCRIPTION:

The 75mm M337A2 is a non-tactical cartridge fired from a M116 Howitzer that is used in burial, retreat ceremonies and VIP Salutes. It consists of a cartridge case containing loosely packed black powder and a press-fitted percussion primer. A fiberglass wad is inserted over the black powder and a polystyrene closing cup is cemented in place with a polyester resin adhesive. When the firing pin of the weapon strikes the primer, a flash is generated which ignites the black powder charge producing flash, smoke, and a loud report to simulate weapon firing.

This item is Code A, approved for service use.

E15101 - Artillery Cartridges, 75MM & 105MM, All Types

SYSTEM DESCRIPTION:

The 105mm M395 blank cartridge is a non-tactical cartridge fired from a M119 Series Towed Howitzer that is used in burial, retreat ceremonies and VIP Salutes as well as simulate battlefield noise used for training exercises. It is assembled with a loose 770 gram black powder charge retained by a glass-fibre closing wad and a polystyrene closing cup glued in place by an epoxy resin. The base of the case is fitted with an M61 percussion element and a primer. Detonation of the case contents creates sound, flash and smoke.

This item is Code A, approved for service use.

E21501 - E15101 - Artillery Cartridges, 75MM & 105MM, All Types

SYSTEM DESCRIPTION:

The 105mm M1 High Explosive (HE) cartridge contains a HE fill and is used primarily for training although some cartridges are expended in combat operations for fragmentation and blast. The cartridge is loaded with an M67 propellant charge, consisting of seven numbered increment bags sewn together in numerical order. Projectile function is dependent upon the fuze used and may function on impact (instantaneous or delay), above ground at a predetermined height or in proximity to the target area. Fuze function detonates the HE projectile filler resulting in projectile fragmentation and blast. Range varies from 3.5 to 11.3 kilometers, depending on the number of charge bags used. The program remanufactures/recapitalizes the remaining unserviceable cartridges through replacement of M67 Prop Charge and Primer and put back into the serviceable inventory at a reduced cost over new production to provide a cost effective training cartridge. Program also funds new production of insensitive munition (IM)
<table>
<thead>
<tr>
<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
<th>Program Elements for Code B Items</th>
<th>Other Related Program Elements</th>
</tr>
</thead>
<tbody>
<tr>
<td>explosive filled cartridges for operations and war reserve. The IM feature of this cartridge reduces the vulnerability to unplanned stimuli, e.g. fire/heat, shock and impact. Lethality is maintained by using a high fragmentation steel (HF-1) shell body loaded with approximately 9 pounds of an IM explosive. This item is Code A, approved for service use.</td>
<td>E21601 - CTG, ARTY, 105MM HE-BB PFF M1130 W/O FUZE</td>
<td></td>
</tr>
<tr>
<td>The 105mm M1130 High Explosive (HE) cartridge fired from a M119A1 Series Towed Howitzer contains a HE fill and is primarily used in combat operations for missions that are fired at a maximum range of 13.5 kilometers and high quadrant elevation. Firing rounds at high quadrant elevation is required to engage targets beyond the tall crests of mountainous terrain. The M1130 is a semi-fixed cartridge composed of the M14 Cartridge Case, M28B2 Percussion Primer, M67 Propelling Charge and a Base Bleed. The projectile warhead is composed of natural fragmenting steel with an inner liner of tungsten spheres that provides increased lethality against personnel and soft targets as well as increased accuracy due to its aerodynamic shape. The cartridge also consists of insensitive munition (IM) explosive filler that reduces vulnerability to unplanned stimuli. The M1130 Cartridge is compatible with the M782 MOFA and the M767ETSQ series fuzes. This item is Code A, approved for service use.</td>
<td>E21610 - CTG, ARTY, 105MM HE-BB PFF M1130A1 W/O FUZE</td>
<td></td>
</tr>
<tr>
<td>The 105mm M1130A1 High Explosive (HE) cartridge fired from a M119A1 Series Towed Howitzer contains a HE fill and is primarily used in combat operations for missions that are fired at long range (maximum range is 17.5 kilometers) and high quadrant elevation. Firing rounds at high quadrant elevation is required to engage targets beyond the tall crests of mountainous terrain. The M1130 is a semi-fixed cartridge composed of the M14 Cartridge Case, XM133 Percussion Primer, XM350 Propelling Charge and a Base Bleed. The projectile warhead is composed of natural fragmenting steel with an inner liner of tungsten spheres that provides increased lethality against personnel and soft targets as well as increased accuracy due to its aerodynamic shape. The cartridge also consists of insensitive munition (IM) explosive filler that reduces vulnerability to unplanned stimuli. The M1130A1 Cartridge is compatible with the M782 MOFA and the M767ETSQ series fuzes. This item is Code B, not approved for service use.</td>
<td>E21702 - CTG, ARTY, 105MM VL ILLUM M314 W/O FUZE</td>
<td></td>
</tr>
<tr>
<td>The 105mm M314A3 Visible Light (VL) Illumination cartridge is used to illuminate a designated target area. The M314A3 is a semi-fixed illuminating cartridge which includes an M14 Cartridge Case, M28 Percussion Primer, M67 Prop Charge, a projectile which contains a pinned base plug, a black powder expelling charge, an illuminating canister with anti-rotational vanes, and a parachute assembly which is connected to the closed end of the canister. The canister contains illuminating filler covered by a thin layer of first fire composition. This item is Code A, approved for service use.</td>
<td>E21705 - CTG, ARTY, 105MM IR ILLUM M1064 W/O FUZE</td>
<td></td>
</tr>
<tr>
<td>The M1064 is a 105mm Infrared (IR) Illuminating Cartridge compatible with the M762 series ET fuze, M67 propelling charge, and is packaged in the PA117 Shipping Container. The XM1064 consists of a 40 gram expelling charge, illuminant canister and parachute assembly. Upon fuze function, the expelling charge simultaneously ignites the illuminate while ejecting it from the projectile. Once dispensed, fins on the canister assist in reducing the spin rate while the parachute provides a descent rate of 12 m/s. The Infrared Illumination greatly enhances the effectiveness of night vision devices providing front line units with temporary battlefield infrared illumination to observe the movements and maneuvers of enemy forces under the cover of darkness. The item is Code A approved for service use.</td>
<td></td>
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</tbody>
</table>
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army


P-1 Line Item Nomenclature: E15101 - Artillery Cartridges, 75MM & 105MM, All Types

Date: May 2013

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

MDAP/MAIS Code(s):

<table>
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<tr>
<th>Item Nomenclature*</th>
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<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>E15200 - CTG, ARTY, 75MM BLANK, M337A1</td>
<td>P5, P5A, P21</td>
<td>A</td>
<td>-</td>
<td>49.713</td>
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<tr>
<td>CTG, ARTY, 105MM BLANK M395</td>
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<td>E21702 - CTG, ARTY, 105MM VL ILLUM M314 W/O FUZE</td>
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<td>E21705 - CTG, ARTY, 105MM IR ILLUM M1064 W/O FUZE</td>
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Total Gross/Weapon System Cost 3,252.213 103.227 80.817 39.825 10.000 49.825

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:** E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):** E15200 - CTG, ARTY, 75MM BLANK, M337A1

**Resource Summary**

<table>
<thead>
<tr>
<th>Resource Summary</th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>5.306</td>
<td>0.296</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>49.713</td>
<td>5.306</td>
<td>0.296</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>49.713</td>
<td>5.306</td>
<td>0.296</td>
<td>-</td>
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</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Cost Elements**

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<th>Cost Elements</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
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<th>FY 2014 Total</th>
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<td>Quantity (Each)</td>
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<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
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<td>Hardware Cost</td>
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<td>† LOAD, ASSEMBLE, PACK (LAP)</td>
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<td>53.24</td>
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<td>† BLACK POWDER CLASS 1</td>
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<tr>
<td>Gross Weapon System Cost</td>
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<td>0.296</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>

**P-5 Remarks:**

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E15200 - CTG, ARTY, 75MM BLANK, M337A1

**Date:** May 2013

**Cost Elements**
(† indicates the presence of a P-21)

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<th>FY</th>
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<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($ )</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td></td>
<td>AMERICAN ORDNANCE LLC (IAAP) / MIDDLETOWN, IA</td>
<td>C / FFP</td>
<td>ROCK ISLAND ARSENAL, IL</td>
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<td>Mar 2013</td>
<td>68,385</td>
<td>53.24</td>
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<td>BLACK POWDER CLASS 1</td>
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<td>Date: May 2013</td>
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**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E15200 - CTG, ARTY, 75MM BLANK, M337A1

### Cost Elements (Units in Thousands)

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<tr>
<th>O</th>
<th>M</th>
<th>FY</th>
<th>SERVICE</th>
<th>PROC</th>
<th>PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>LOAD, ASSEMBLE, PACK (LAP)</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>2012</td>
<td>ARMY</td>
<td>68.385</td>
<td>-</td>
<td>68.385</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Fiscal Year 2012**

| 1 | 2012 | ARMY | 68.385 | - | 68.385 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25.000 | 25.000 | 18.385 | - |

**Fiscal Year 2013**

| 1 | 2012 | ARMY | 68.385 | - | 68.385 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 25.000 | 25.000 | 18.385 | - |
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E15200 - CTG, ARTY, 75MM BLANK, M337A1

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
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<th>MAX</th>
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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E21501 - CTG, ARTY, 105MM HE, M1 W/O FUZE

---

**Resource Summary**

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<tr>
<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>2,530.717</td>
<td>51.735</td>
<td>44.493</td>
<td>22.493</td>
<td>10.000</td>
</tr>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>2,530.717</td>
<td>51.735</td>
<td>44.493</td>
<td>22.493</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
<td>2,530.717</td>
<td>51.735</td>
<td>44.493</td>
<td>22.493</td>
<td>10.000</td>
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</tbody>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions):**
- - - - - -

**Gross/Weapon System Unit Cost (Units in Dollars):**
- - - - - -

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**Cost Elements**

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<th>ID CD</th>
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<th>FY 2013</th>
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* Date: May 2013

* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

* This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Nomenclature:
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

Item Nomenclature (Item Number - Item Name, DODIC):
E21501 - CTG, ARTY, 105MM HE, M1 W/O FUZE

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<th>Cost Elements</th>
<th>All Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
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<th>FY 2014 Total</th>
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<td>Total Hardware Cost</td>
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Support Cost
- PRODUCTION ENGINEERING
- QUALITY ASSURANCE
- ACCEPTANCE TESTING
- RECAPITALIZATION

Total Support Cost
- 51.735

Gross Weapon System Cost
- 2,530.717

P-5 Remarks:
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<th>Method/Type, or Funding Vehicle</th>
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<th>Date of First Delivery</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21501 - CTG, ARTY, 105MM HE, M1 W/O FUZE

---

**Cost Elements (Units in Thousands)**

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<th>FY</th>
<th>SERVICE</th>
<th>ACCEP PRIOR TO 1 OCT</th>
<th>BAL DUE AS OF 1 OCT</th>
<th>LOAD, ASSEMBLE, PACK (LAP)</th>
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<td>1 2013 ARMY 36.150 - 36.150</td>
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<th>LOAD, ASSEMBLE, PACK (LAP)</th>
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**Date:** May 2013

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LI E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**UNCLASSIFIED**

Page 11 of 35

P-1 Line #13

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137
<table>
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<th>O/C/O #</th>
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LI E15101 - Artillery Cartridges, 75MM & 105MM, All Types
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21501 - CTG, ARTY, 105MM HE, M1 W/O FUZE

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E21601 - CTG,ARTY, 105MM HE-BB PFF M1130 W/O FUZE

**Resource Summary**

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<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Procurement Quantity (Units in Each)</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>80.657</td>
<td>29.291</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>80.657</td>
<td>29.291</td>
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<td>-</td>
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</tbody>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Cost Elements**

<table>
<thead>
<tr>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
<td>Recurring Cost</td>
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E21601 - CTG, ARTY, 105MM HE-BB PFF M1130 W/O FUZE

**Date:** May 2013

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**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition
- Item Nomenclature:
  - E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**P-1 Line Item Nomenclature:**
- E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
- E21601 - CTG, ARTY, 105MM HE-BB

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**Remarks:**

M67 Propellant Charges: IDIQ awarded (Jun 11) to General Dynamics, LE GA RDEUR, Canada.
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**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition
- P-1 Line Item Nomenclature: E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
- E21601 - CTG, ARTY, 105MM HE-BB
- PFF M1130 W/O FUZE

**Cost Elements**

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition
  
**P-1 Line Item Nomenclature:**
- E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
- E21601 - CTG, ARTY, 105MM HE-BB PFF M1130 W/O FUZE

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**LOAD, ASSEMBLE, PACK (LAP)**

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**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
- E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
- E21601 - CTG, ARTY, 105MM HE-BB PFF M1130 W/O FUZE
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

#### P-1 Line Item Nomenclature:
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

#### Item Nomenclature:
E21601 - CTG,ARTY, 105MM HE-BB PFF M1130 W/O FUZE

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

P-1 Line Item Nomenclature:
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

Item Nomenclature (Item Number - Item Name, DODIC):
E21610 - CTG, ARTY, 105MM, EXT RANGE HE-BB PFF, M1130A1 W/O

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Support Cost

Total Hardware Cost

Total Recurring Cost

Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost (Units in Dollars)

Gross/Weapon System Cost ($ in Millions)

Less PY Advance Procurement ($ in Millions)

Net Procurement (P1) ($ in Millions)

Plus CY Advance Procurement ($ in Millions)

Total Obligation Authority ($ in Millions)

Procurement Quantity (Units in Each)

Hardware Cost

PRODUCTION ENGINEERING

Support Cost

Gross/Weapon System Unit Cost

Resource Summary

Prior Years

FY 2012

FY 2013

FY 2014 Base

FY 2014 OCO##

FY 2014 Total

Initial Spares

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Resource Summary

Prior Years

FY 2012

FY 2013

FY 2014 Base

FY 2014 OCO##

FY 2014 Total

Procurement Quantity (Units in Each)

Gross/Weapon System Cost ($ in Millions)

Less PY Advance Procurement ($ in Millions)

Net Procurement (P1) ($ in Millions)

Plus CY Advance Procurement ($ in Millions)

Total Obligation Authority ($ in Millions)

(continued on next page)
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E21610 - CTG, ARTY, 105MM, EXT RANGE HE-BB PFF, M1130A1 W/O

**Date:** May 2013

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P-5 Remarks:

P-5 Remarks:
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#### Exhibition P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01:

Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**

E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**

E21610 - CTG, ARTY, 105MM, EXT RANGE HE-BB PFF, M1130A1 W/O

**Date:** May 2013

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<td>- 4.110</td>
<td>- 9.571</td>
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<td>- - - - - - - - - - - - - - - - - - - -</td>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
- E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
- E21610 - CTG, ARTY, 105MM, EXT RANGE HE-BB PFF, M1130A1 W/O

<table>
<thead>
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<th>Cost Elements (Units in Thousands)</th>
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<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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**Li E15101 - Artillery Cartridges, 75MM & 105MM, All Types**

**Army**

**UNCLASSIFIED**

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P-1 Line #13
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21610 - CTG, ARTY, 105MM, EXT RANGE HE-BB PFF, M1130A1 W/O

### Production Rates (Each / Month)

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<th>1-5-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

<table>
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<tr>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
<td>Gross/Weapon System Cost</td>
<td>18.629</td>
<td>11.462</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement</td>
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<tr>
<td>Net Procurement (P1)</td>
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<td>Plus CY Advance Procurement</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- Initial Spares ($ in Millions)
- Gross/Weapon System Unit Cost (Units in Dollars)

### Cost Elements

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### P-5 Remarks:

- FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
- This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**LI E15101 - Artillery Cartridges, 75MM & 105MM, All Types**

**Army**

**Page 26 of 35**
<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>O</th>
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<th>O</th>
<th>FY</th>
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<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
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**Cost Elements (Units in Thousands)**

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**P-1 Line Item Nomenclature:**

E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**

E21702 - CTG, ARTY, 105MM VL ILLUM M314 W/O FUZE
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21702 - CTG, ARTY, 105MM VL ILLUM M314 W/O FUZE

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| QTY | PROC | E15101 | Artillery Cartridges, 75MM & 105MM, All Types |
|-----|------|---------|
| 155 |      | LI      |

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**Calendar Year 2016**

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**UNCLASSIFIED**
### Production Rates (Each / Month)

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<td>ALT After Oct 1</td>
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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### UNCLASSIFIED

**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E21705 - CTG, ARTY,105MM IR ILLUM M1064 W/O FUZE

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E21705 - CTG, ARTY,105MM IR ILLUM M1064 W/O FUZE

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**Resource Summary**

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<th>FY 2014 OCO</th>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>3.862</td>
<td>5.767</td>
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<td>-</td>
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</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
</tr>
<tr>
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<td>3.862</td>
<td>5.767</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

| FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 |
| FY 2014 Total |

**Hardware Cost**

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<th>Hardware Cost</th>
<th>ID CD</th>
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<td>2,741</td>
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<tr>
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<td>2,741</td>
<td>4,227</td>
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| Support Cost | | | | | | | |
| PRODUCTION ENGINEERING | | | | | | | |
| QUALITY ASSURANCE | | | | | | | |
| ACCEPTANCE TESTING | | | | | | | |
| FIRST ARTICLE TEST | | | | | | | |
| ARTILLERY KEY CHARACTERISTICS | | | | | | | |
| Total Support Cost | - | 1,121 | 1,540 | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross Weapon System Cost | 9.328 | 3.862 | 5.767 | - | - | - | - |

**P-5 Remarks:**

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21705 - CTG, ARTY, 105MM IR ILLUM M1064 W/O FUZE

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<th>C</th>
<th>O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Date of First Delivery</th>
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Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army


P-1 Line Item Nomenclature: E15101 - Artillery Cartridges, 75MM & 105MM, All Types

Item Nomenclature: E21705 - CTG, ARTY, 105MM IR ILLUM M1064 W/O FUZE

Cost Elements

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<th>O</th>
<th>C</th>
<th>R</th>
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<th>Fiscal Year 2014</th>
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LI E15101 - Artillery Cartridges, 75MM & 105MM, All Types

UNCLASSIFIED

Page 33 of 35

P-1 Line #13
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21705 - CTG, ARTY,105MM IR ILLUM M1064 W/O FUZE

**Date:** May 2013

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<tr>
<td>1</td>
<td>2013</td>
<td>ARMY</td>
<td>4.033</td>
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**COMPLETE ROUND**


LI E15101 - Artillery Cartridges, 75MM & 105MM, All Types  

UNCLASSIFIED  

Page 34 of 35  

P-1 Line #13
LI E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E15101 - Artillery Cartridges, 75MM & 105MM, All Types

**Item Nomenclature:**
E21705 - CTG, ARTY,105MM IR ILLUM M1064 W/O FUZE

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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
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<td>6</td>
<td>6</td>
<td>20</td>
<td>26</td>
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*A* in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

#### Resource Summary

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<td>6,706</td>
<td>48,684</td>
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<td>23,763</td>
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<td>108,399</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>40.061</td>
<td>63.271</td>
<td>37.902</td>
<td>10.000</td>
<td>47.902</td>
<td>82,854</td>
<td>30.047</td>
<td>81,174</td>
<td>85.708</td>
<td>Continuing</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>40.061</td>
<td>63.271</td>
<td>37.902</td>
<td>10.000</td>
<td>47.902</td>
<td>82,854</td>
<td>30.047</td>
<td>81,174</td>
<td>85.708</td>
<td>Continuing</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>5,171.935</td>
<td>40.061</td>
<td>63.271</td>
<td>37.902</td>
<td>10.000</td>
<td>47.902</td>
<td>82,854</td>
<td>30.047</td>
<td>81,174</td>
<td>85.708</td>
<td>Continuing</td>
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</tbody>
</table>

* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
* This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

#### Description:

E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

This budget line includes Projectiles, Artillery, 155mm, All Types.

E21615 - PROJ, ARTY, 155MM, SMOKE M1125

The 155mm XM1125 Smoke projectile will be a more cost effective replacement for M825A1 White Phosphorous (WP) Projectile. This will be one of the five rounds within the M483 re-use program. The XM1125, which will utilize projectile metal parts (bodies and bases) generated from the current M483A1 demilitarization program at McAlester Army Ammunition Plant, will incorporate a canister containing WP felt wedges and a center core Burster. The XM1125 will provide smoke screening/obscuration capability to 22.5km providing increased operational effectiveness and improved training.

This item is Code B and not approved for service use.

E21618 - PROJ, ARTY, 155MM EXT RANGE MARKING RD M110A3

The 155mm Smoke White Phosphorous (WP) M110A3 Artillery Round utilizes projectile bodies generated from the current M483 demilitarization program and incorporates a more producible WP Bulk-filled Canister with 15.0 lbs of WP that provides smoke spotting capability to a maximum range of 22.5 kilometers providing increased operational effectiveness and improved training.

This item is Code B, not approved for service use.

E26900 - PROJ, ARTY, 155MM VL ILLUM, M485

The 155MM Illum M485 fired from 155mm howitzers is used to illuminate the battlefield to a maximum range of 17.5 kilometers. The projectile has a hollow, steel-forged body containing an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illuminate canister contains the main parachute and lines, the illuminate candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses a Mechanical or Electronic Time fuze. When the fuze functions, the primary expelling charge ignites the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute then deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main parachute open, the illumination candle descends at 15 feet per second and burns for 120 seconds producing approximately 1,000,000 candlepower.

This item is Code A, approved for service use.

E26904 - Proj, Arty, 155MM IR ILLUM M1086
The 155mm M1066 Infrared Illumination projectile is used with night vision devices to illuminate a designated target area to a maximum range of 22.5 kilometers. The projectile has a hollow, steel-forged body containing an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illumination canister contains the main parachute and lines, the illumination candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses an Electronic Time Fuze. When the fuze functions, the primary expelling charge ignites forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main parachute open, the illuminate candle descends at 15 feet per second and burns for 120 seconds. The XM1123 Provides Infrared battlefield illumination that is 2.4x larger in diameter than the M4852A2 visible light projectile. This item is Code A, approved for service use.

- PROJ, ARTY, 155MM IR ILLUM M1123

The 155mm XM1123 Infrared Illumination projectile is used with night vision devices to illuminate a designated target area to a maximum range of 22.5 kilometers. The round utilizes projectile bodies generated from the current M483 demilitarization program that contains an illumination canister, a canister expelling charge in the nose and a drogue parachute in the base. The illumination canister contains the main parachute and lines, the illumination candle assembly and secondary expelling charge and a delay element holder. The outer shell of the canister is fitted with four longitudinal fins. The projectile uses an Electronic Time Fuze. When the fuze functions, the primary expelling charge ignites forcing the drogue parachute and canister assembly against the base plate, rupturing the base pins and expelling the canister and parachute. The drogue parachute deploys and the canister fins extend. The expelling charge also ignites the delay element in the canister nose. The delay element ignites the secondary expelling charge within the canister after 8 seconds igniting the candle and expelling the main parachute. With the main parachute open, the illuminate candle descends at 15 feet per second and burns for 120 seconds. The XM1123 Provides Infrared battlefield illumination that is 2.4x larger in diameter than the M4852A2 visible light projectile. This item is Code A, approved for service use.

E27603 - PROJ, ARTY, 155MM HE IM TRAINING M1122
SYSTEM DESCRIPTION:
The 155mm M1122 High Explosive (HE) projectile will be the primary HE round used for training. The M1122 is a lower cost HE training round. The M1122 will replace the M804A1 and M107 Projectiles for training. It utilizes M483A1 metal parts from an ongoing M483A1 demil effort, is filled with high density concrete to simulate the weight of the M795 HE Projectile, and incorporates severalInsensitive Munitions (IM) technologies (IMX-101 explosive fill, PBXN-9 Supplementary Charge, Meltable Fuze Well Liner and Meltable Fuze Plug) to increase survivability and safety. The M1122 will replicate the flight characteristics of the wartime M795 HE projectile with a maximum range of 22.5 kilometers. This item is Code A, approved for service use.

E27900 - PROJ, ARTY, 155MM SMOKE WP M110A2
SYSTEM DESCRIPTION:
The 155mm Smoke White Phosphorous (WP), M110A2 projectile is a steel shell body filled with 15.6 pounds of WP, a M54A1 Burster extending through the center, an adapter in the nose of the projectile that is threaded to receive the fuze and an aluminum plug sealing the base of the tube. A lifting plug is installed in the fuze cavity for shipping. A point detonating Fuze is normally used; however, a mechanical or electronic time fuze may also be utilized. This round is fired from 155mm howitzer platforms to provide immediate screening smoke and marking at a maximum range of 18.1 kilometers. The M54A1 Burster is made from steel and is filled with Comp B5 explosive. This item is Code A, approved for service use.

E66800 - PROJ, ARTY, 155MM HE, M795
SYSTEM DESCRIPTION:
The M795 High Explosive (HE) Projectile is the primary HE round used for warfare operations with maximum range of 22.5 kilometers. The M795 incorporatesInsensitive Munitions (IM) technologies that reduces vulnerability from unplanned stimuli e.g. fire/heat, shock and impact, while maintaining or exceeding the same level of effectiveness in combat. The 155mm M795 has a high fragmentation steel (HF1) body projectile filled with 23.8 pounds of IMX101 Explosive fill, PBXN-9 Supplementary Charge, and Meltable Fuze Plug. The projectile can use several different fuzes (impact, mechanical time, electronic time and short intrusion proximity). It is used for conventional fire support for harassment and interdiction, fragmentation and blast effect. The M795 projectile is employed against personnel, trucks, electronic surveillance and target acquisition devices, supply points, command and control and communications (C3) installations, and mechanized and armored forces. This item is Code A, approved for service use.

E67800 - PROJ, ARTY, 155MM WP SMOKE M825
The 155mm WP M825A1 is an improved artillery projectile which produces a ground screening smoke cloud 125-150 meters wide for 5-10 minutes. This smoke screen is produced by burning multiple wedge-shaped pieces of felt saturated with White Phosphorous (WP). The system consists principally of a projectile carrier and Canister containing 116 WP felt wedges and a center core Burster. Projectile carrier is comprised of an Ogive, Expulsion Charge, modified all steel body, and a one-piece steel dome shaped base. Upon M762/M762A1 ET fuze function, the Expulsion Charge is initiated which simultaneously disperses the Canister and ignites a short delay. This delay provides ample time for Canister and projectile body separation prior to functioning of the center core Burster which ruptures the Canister and dispenses 116 WP felt wedges. In less than 45 seconds, a dense and uniform smoke screen is created by burning of the WP. This projectile is shipped with a fusible lifting plug which protects the item during shipping, handling, and storage. This item is Code A, approved for service use.

Item Schedule

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<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
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<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Justification:

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed...
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army  
Date: May 2013

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<td>2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition</td>
<td>E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES</td>
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<th>Other Related Program Elements:</th>
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| MDAP/MAIS Code(s):                               | missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.  
FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations”. |
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Resource Summary

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<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) - - - - - -
Gross/Weapon System Unit Cost (Units in Dollars) - - - - - -

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Cost Elements

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<thead>
<tr>
<th>Cost Elements</th>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Unit Cost ($ M)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
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<td>Hardware Cost</td>
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<td>-</td>
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<tr>
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Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Item Nomenclature (Item Number - Item Name, DODIC):
E21615 - PROJ, ARTY, 155MM, SMOKE M1125

Date: May 2013

P-5 Remarks:

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<th>Cost Elements</th>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
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<td>Quantity (Each)</td>
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<td>Quantity (Each)</td>
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P-5 Remarks:
### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E21615 - PROJ, ARTY, 155MM, SMOKE M1125

**Date:** May 2013

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<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
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<th>Unit Cost ($)</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
- E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
- E21615 - PROJ, ARTY, 155MM, SMOKE M1125

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<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<td>B AL DUE AS OF 1 OCT</td>
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<td>LOAD, ASSEMBLE &amp; PACK</td>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E21615 - PROJ, ARTY, 155MM, SMOKE M1125

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**Cost Elements (Units in Thousands)**

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<th>SERVICE</th>
<th>PROCESS</th>
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<th>BAL</th>
<th>ACcep</th>
<th>PRIOR To 1 Oct</th>
<th>BAL</th>
<th>DUE As Of 1 Oct</th>
<th>BAL</th>
<th>DUE As Of 1 Oct</th>
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<th>Fiscal Year 2016</th>
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<tr>
<td>T</td>
<td>V</td>
<td>C</td>
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| O | C | E | A | E | A | P | A | U | U | U | E | C | O | E | A | E | A | P | A | U | U | U | E | A |
| T | V | C | N | B | R | Y | N | L | G | P | T | V | C | N | B | R | Y | N | L | G | P | L |

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**Date:** May 2013

**P-1 Line #14**
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E21615 - PROJ, ARTY, 155MM, SMOKE M1125

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Exhibit P-5, Cost Analysis:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature (Item Number - Item Name, DODIC):**
E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

---

**Resource Summary**

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<th>FY 2013</th>
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<th>FY 2014 Total</th>
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<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
<td>266.436</td>
<td>-</td>
<td>12.433</td>
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<td>-</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>12.433</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

| FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012 |

<table>
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<tr>
<th>FY 2014 Total</th>
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</thead>
<tbody>
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**Gross/Weapon System Unit Cost (Units in Dollars)**

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<th>FY 2014 Total</th>
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**Hardware Cost**

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<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
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<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>† LOAD, ASSEMBLE, PACK (LAP)</td>
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## Exhibit P-5, Cost Analysis:

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature (Item Number - Item Name, DODIC):**
E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

**Date:** May 2013

### Cost Analysis

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>Unit Cost ($M)</td>
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<td>Unit Cost ($M)</td>
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### P-5 Remarks:

- Detailed analysis of cost elements and their impact on the overall cost of the project.
- Comparison of costs across different budget years.
- Identification of areas for potential cost savings or efficiency improvements.

**UNCLASSIFIED**
## Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

### P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

### Budget Procurement History and Planning:

#### PB Amended 2014 Army

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**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

**Cost Elements**

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**UNCLASSIFIED**

LI E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Army
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**

E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**

E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

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**Cost Elements**

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**Calendar Year 2015**

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**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**

E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**

E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

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**Cost Elements**

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**Fiscal Year 2016**

**Calendar Year 2016**

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**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**

E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**

E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

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**Cost Elements**

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E26900 - PROJ, ARTY, 155MM VL ILLUM, M485 / M1124

**Date:** May 2013

**Production Rates (Each / Month) and Procurement Leadtime (Months)**

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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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**Remarks:**
- PRODUCTION LINE SHARED WITH THE M1066 DA49 and M1123/DA56
- "A" in the Delivery Schedule indicated the Contract Award Date.
- Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

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<th>Resource Summary</th>
<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | 1,419.10 | 1,419.10 |

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This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.
Exhibit P-5, Cost Analysis: PB Amended 2014 Army


P-1 Line Item Nomenclature: E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Item Nomenclature (Item Number - Item Name, DODIC): E26904 - PROJ, ARTY, 155MM IR ILLUM M1066 / M1123

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<td>† UNIVERSAL LIFTING PLUG</td>
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Support Cost:
- PRODUCTION ENGINEERING
- ACCEPTANCE TESTING
- QUALITY ASSURANCE

Total Support Cost:
- PRODUCTION ENGINEERING
- ACCEPTANCE TESTING
- QUALITY ASSURANCE

Gross Weapon System Cost:
- PRODUCTION ENGINEERING
- ACCEPTANCE TESTING
- QUALITY ASSURANCE

Date: May 2013

P-5 Remarks:
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

#### Date: May 2013

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<tr>
<th>Cost Elements († indicates the presence of a P-21)</th>
<th>O C O FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>PINE BLUFF ARSENAL / PINE BLUFF, AR</td>
<td>PO</td>
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<td><strong>LOAD, ASSEMBLE, PACK (LAP)</strong></td>
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<td>Mar 2016</td>
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<td>Sep 2015</td>
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<td>11,655</td>
<td>45.51</td>
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</table>
### Cost Elements  
*† indicates the presence of a P-21*

| Cost Elements                          | FY  | Contractor and Location                             | Location of PCO       | Award Date  | Date of First Delivery | Qty (Each) | Unit Cost ($) | Specs Avail Now? | Date Revsn Avail | RFP Issue Date |
|----------------------------------------|-----|---------------------------------------------------|-----------------------|-------------|------------------------|------------|---------------|-----------------|-----------------|----------------|}
| PARACHUTE MAIN SUPPORTS, 155MM ILLUM   | 2013| CRANE ARMY AMMO ACTIVITY / CRANE, IN              | PO CRANE, PO ROCK     | Jun 2013    | Dec 2014               | 27,642     | 3.05          | Y               |                 |                |
| PARACHUTE MAIN SUPPORTS, 155MM ILLUM   | 2014| CRANE ARMY AMMO ACTIVITY / CRANE, IN              | PO CRANE, PO ROCK     | Mar 2014    | Sep 2015               | 46,622     | 3.06          | Y               |                 |                |
| PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM | 2013| TO BE SELECTED / TBS01                            | C / IDIQ              | Jun 2013    | Dec 2014               | 6,944      | 17.49         | Y               |                 |                |
| PARACHUTE DROGUE ASSEMBLY, 155MM ILLUM | 2014| TO BE SELECTED / TBS01                            | C / IDIQ              | Mar 2014    | Sep 2015               | 11,655     | 19.91         | Y               |                 |                |
| DELAY ELEMENT, 155MM ILLUM             | 2013| CRANE ARMY AMMO ACTIVITY / CRANE, IN              | PO CRANE, PO ROCK     | Feb 2013    | Oct 2014               | 6,944      | 33.58         | Y               |                 |                |
| DELAY ELEMENT, 155MM ILLUM             | 2014| CRANE ARMY AMMO ACTIVITY / CRANE, IN              | PO CRANE, PO ROCK     | Mar 2014    | Sep 2015               | 11,655     | 31.81         | Y               |                 |                |
| WOOD PALLETS (HEAT TREATED)            | 2014| MCALESTER ARMY AMMUNITION / MCALESTER, OK         | C / FFP              | Mar 2014    | Sep 2015               | 1,485      | 107.78        | Y               |                 |                |
| PROJ BODY 155MM M485                   | 2013| TO BE SELECTED / TBS01                            | C / FFP              | Jun 2013    | Dec 2014               | 6,876      | 303.96        | Y               |                 |                |
| PARACHUTE DROGUE SUPPORTS, 155MM ILLUM | 2013| CRANE ARMY AMMO ACTIVITY / CRANE, IN              | PO CRANE, PO ROCK     | Jun 2013    | Dec 2014               | 14,158     | 2.74          | Y               |                 |                |
| UNIVERSAL LIFTING PLUG                 | 2013| TO BE SELECTED / TBS01                            | C / FFP              | Jun 2013    | Dec 2014               | 6,876      | 9.32          | Y               |                 |                |
| GROMMET                                | 2013| LC INDUSTRIES SIGNATURE WORKS / HAZELHURST, MS    | C / FFP              | Jun 2013    | Dec 2014               | 6,944      | 6.54          | Y               |                 |                |

### Remarks:  
Universal Lifting Plugs: IDIQ awarded (Nov 10) to multiple contractors. Requirements will be competed among the following contractors: Corone t, Yonkers, NY; J&M Machine Products, Muskegon, MI; Flexible Concepts, Elkhart, IN. Main Parachutes: IDIQ awarded (Jul 10) to multiple contractors. Requirements will be competed among the following contractors: Yoland, Jamaica, NY; Production Products, St. Louis, MO; NAA, Roxboro, NC. Parachute Drogue Assy: IDIQ awarded (Jul 10) to multiple contractors. Requirements will be competed among the following contractors: Yoland, Jamaica, NY; Production Products, St. Louis, MO; NAA, Roxboro, NC. Canister Base Assy: IDIQ awarded (Aug-11) to multiple contractors. Requirements will be competed among the following contractors: Woodlawn, Marshall, TX; Bailey Tools & Manufacturing, Lancaster, TX. Canister MPTS Assy: IDIQ awarded (Aug-11) to multiple contractors. Requirements will be competed among the following contractors: Woodlawn, Marshall, TX; Bailey Tools & Manufacturing, Lancaster, TX.
**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E26904 - PROJ, ARTY, 155MM IR ILLUM M1066 / M1123

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<th>Cost Elements (Units in Thousands)</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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<td>LOAD, ASSEMBLE, PACK (LAP)</td>
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<tr>
<td>1 2013 ARMY</td>
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<tr>
<td>1 2014 ARMY</td>
<td>11.427</td>
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**Date:** May 2013
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E26904 - PROJ, ARTY, 155MM IR ILLUM M1066 / M1123

<table>
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<th>Cost Elements (Units in Thousands)</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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<td>2014</td>
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**LOAD, ASSEMBLE, PACK (LAP)**

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<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
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Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Item Nomenclature:
E26904 - PROJ, ARTY, 155MM IR ILLUM M1066 / M1123

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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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<td>6</td>
<td>24</td>
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"A" in the Delivery Schedule indicated the Contract Award Date. Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**Item Nomenclature (Item Number - Item Name, DODIC):**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Date:** May 2013

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Resource Summary**

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
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<td>-</td>
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<td>Net Procurement (P1) ($ in Millions)</td>
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<td>9.976</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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<td>11.917</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

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<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
<th>FY 2014 Total</th>
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**Hardware Cost**

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<th>FY 2013</th>
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<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
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<td>8.463</td>
<td>10.575</td>
<td>-</td>
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<td>10.575</td>
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## FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition  

**P-1 Line Item Nomenclature:**  
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES  

**Item Nomenclature (Item Number - Item Name, DODIC):**  
E27603 - PROJ, ARTY, 155MM HE IM TRAINING M1122  

**Date:** May 2013  

### Cost Elements († indicates the presence of a P-5A)

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<th>All Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Quantity (Each)</td>
<td>Total Cost ($M)</td>
<td>Unit Cost ($M)</td>
<td>Quantity (Each)</td>
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### P-5 Remarks:

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**LI E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES**  

**UNCLASSIFIED**  

**Army**  

**Page 25 of 45**  

**P-1 Line #14**  

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186
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<th>Cost Elements</th>
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<td>Unit Cost ($)</td>
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## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

### P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

### Item Nomenclature:
E27603 - PROJ, ARTY, 155MM HE IM TRAINING M1122

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E27603 - PROJ, ARTY, 155MM HE IM TRAINING M1122

**Date:** May 2013

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**Note:** The table includes columns for fiscal years 2012 to 2014, with columns for production quantities and obligations. The data is presented in a tabular format with columns for service, fiscal year, and budget activity.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

#### P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

#### Item Nomenclature:
E27603 - PROJ, ARTY, 155MM HE IM TRAINING M1122

#### Date:
May 2013

#### Fiscal Year 2016

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<th>BAL DUE AS OF 1 OCT</th>
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#### Cost Elements (Units in Thousands)

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### UNCLASSIFIED

**LI E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES**

**UNCLASSIFIED**

Page 30 of 45  P-1 Line #14
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army


P-1 Line Item Nomenclature: E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Item Nomenclature: E27603 - PROJ, ARTY, 155MM HE IM TRAINING M1122

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
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<td>8.945</td>
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</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

- Initial Spares ($ in Millions) | - | - | - | - | - |
- Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - |

* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.
* This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Date:** May 2013

**Item Nomenclature (Item Number - Item Name, DODIC):**
E27900 - PROJ, ARTY, 155MM SMOKE WP M110A2

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<th>Method/Type, or Funding Vehicle</th>
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### P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

### Item Nomenclature:
E27900 - PROJ, ARTY, 155MM SMOKE
WP M110A2

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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### UNCLASSIFIED

#### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature (Item Number - Item Name, DODIC):**
E66800 - PROJ, ARTY, 155MM HE, M795

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*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions)**
- - - - - - -

**Gross/Weapon System Unit Cost (Units in Dollars)**
- - - - - - -

\# FY 2013 Program is from the FY 2013 President’s Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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**UNCLASSIFIED**

LI E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

UNCLASSIFIED
Page 37 of 45

P-1 Line #14

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LI E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature (Item Number - Item Name, DODIC):**
E66800 - PROJ, ARTY, 155MM HE, M795

**Date:** May 2013

**P-5 Remarks:**

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**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E66800 - PROJ, ARTY, 155MM HE, M795

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

**Item Nomenclature:**
E66800 - PROJ, ARTY, 155MM HE, M795

**Date:** May 2013

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<tr>
<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>LOAD, ASSEMBLE, PACK (LAP)</td>
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<tr>
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<tr>
<td>1 2013 ARMY 13.792</td>
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</tr>
<tr>
<td>1 2013 MC 89.328</td>
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<tr>
<td>1 2013 TOTAL 103.120</td>
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<tr>
<td>1 2014 ARMY 12.860</td>
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<td>-</td>
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<tr>
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### P-1 Line Item Nomenclature

- **P-1 Line #14**
- **E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES**
- **Ammunition / BSA 37: Artillery Ammunition**
- **Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**
- **Item Nomenclature: E66800 - PROJ, ARTY, 155MM HE, M795**

### Date

- **May 2013**
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Item Nomenclature:
E66800 - PROJ, ARTY, 155MM HE, M795

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<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<tbody>
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<td><strong>Fiscal Year 2016</strong></td>
<td><strong>Calendar Year 2016</strong></td>
<td><strong>Fiscal Year 2017</strong></td>
</tr>
<tr>
<td><strong>Load, Assemble, Pack (LAP)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Units in Thousands</strong></td>
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<td>ARMY</td>
<td>8.623</td>
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<tr>
<td>1</td>
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<td>TOTAL</td>
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<tr>
<td>1</td>
<td>2014</td>
<td>ARMY</td>
<td>12.860</td>
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### Production Rates (Each / Month)

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<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
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### Procurement Leadtime (Months)

<table>
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<tr>
<th>MFR Name - Location</th>
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<tr>
<td></td>
<td>ALT Prior to Oct 1</td>
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<td>AMERICAN ORDNANCE LLC (IAAP) - MIDDLETOWN, IA</td>
<td>6</td>
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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 37: Artillery Ammunition

P-1 Line Item Nomenclature:
E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

Item Nomenclature (Item Number - Item Name, DODIC):
E67800 - PROJ, ARTY, 155MM WP SMOKE M825

Resource Summary

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<th>Prior Years</th>
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<th>FY 2013*</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>231.214</td>
<td>-</td>
<td>8.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>231.214</td>
<td>-</td>
<td>8.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>-</td>
<td>8.000</td>
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<td>-</td>
</tr>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

Cost Elements

<table>
<thead>
<tr>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>ID CD</td>
<td>Unit Cost ($M)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($M)</td>
<td>Unit Cost ($M)</td>
<td>Quantity (Each)</td>
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<td>Support Cost</td>
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<tr>
<td>RECAPITALIZATION</td>
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<td>-</td>
</tr>
<tr>
<td>Total Support Cost</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Gross Weapon System Cost</td>
<td>231.214</td>
<td>-</td>
<td>-</td>
<td>8.000</td>
<td>-</td>
</tr>
</tbody>
</table>

P-5 Remarks:

LI E89500 - ARTILLERY PROJECTILE, 155MM, ALL TYPES

UNCLASSIFIED

Army

Page 45 of 45

P-1 Line #14

206
### Description:

This budget line item includes the Excalibur family of munitions for the use in the M772A2 Lightweight 155mm Howitzer (LW155), and the M109A6 Paladin Howitzer.

Excalibur is a Precision Guided Extended Range 155mm Artillery projectile providing Brigade Combat Teams an organic precision fires capability. Additionally it provides improved fire support capability due to its increased range of 37.5 kilometers and demonstrated accuracy of <4 meters radial miss distances, which enables a first round effect on target reducing the number of rounds required while reducing collateral damage. Excalibur is compatible with the M777A2 Lightweight 155mm Howitzer (LW155) and the M109A6 Paladin Howitzer. Excalibur provides a 33% range increase over current Rocket Assisted Projectiles with a <10 meter circular error probable requirement at all ranges. Excalibur is also highly resistant to Global Positioning System (GPS) jamming. This item is Code A, approved for service use.

### Item Schedule

<table>
<thead>
<tr>
<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M )</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M )</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M )</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M )</th>
<th>Unit Cost ($)</th>
<th>Qty (Each)</th>
<th>Total Cost ($ M )</th>
</tr>
</thead>
<tbody>
<tr>
<td>E80103 - PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR</td>
<td>P5, P5A, P21</td>
<td>A</td>
<td>122,197.99</td>
<td>-</td>
<td>424,638</td>
<td>78,056.45</td>
<td>744</td>
<td>58,074</td>
<td>53,620.03</td>
<td>2,287</td>
<td>122,629</td>
<td>84,658.35</td>
<td>802</td>
<td>67,896</td>
<td>73,333.33</td>
<td>150</td>
<td>11,000</td>
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<tr>
<td>Total Gross/Weapon System Cost</td>
<td></td>
<td></td>
<td>424,638</td>
<td>58,074</td>
<td>122,629</td>
<td>67,896</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
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<td></td>
<td>11,000</td>
</tr>
</tbody>
</table>

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army


P-1 Line Item Nomenclature: E80100 - Proj 155mm Extended Range M982 Ammunition

ID Code (A=Service Ready, B=Not Service Ready) : Program Elements for Code B Items: Other Related Program Elements: 0604814A

MDAP/MAIS Code(s):

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:

Excalibur Increments Ia-1 and Ia-2 are currently fielded and in use by units throughout Afghanistan and deployed globally to support other Military Contingency Operations. Excalibur is an International Cooperative Development program, teamed with the Kingdom of Sweden (KoS), which contributes resources towards the development in accordance with an established Project Agreement. Excalibur Increment Ia-1 was initially fielded to units in Iraq and Afghanistan in response to an urgent need requests in support of Operation Iraqi Freedom (as of September 2010 re-named to Operation New Dawn) and Operation Enduring Freedom. Increment Ia-2 was fielded in early FY 2012 and greatly increases range from 25.2 kilometers to 37.5 kilometers. The Excalibur guided projectile program is using an incremental development approach to provide a combat capability to the Soldier as quickly as possible while delivering advanced capabilities at lower costs. Excalibur Increment Ib will provide further performance improvements while significantly lowering unit costs.

The program was certified by the Defense Acquisition Executive (DAE) on January 10, 2011. The Excalibur requirement was again validated during a July 2012 Headquarters Department of the Army Configuration Steering Board (CSB).

Increment Ib completed a successful Milestone C Decision Review on December 12, 2012. The first Low Rate Initial Production contract was awarded on December 21, 2012.

This is a war reserve item currently being used in combat in Afghanistan. The FY 2014 request builds a war reserve inventory in accordance with the Army procurement goals. FY 2014 Base procurement dollars in the amount of $67.896 million supports the procurement of 802 Increment Ib projectiles. FY 2014 OCO procurement dollars in the amount of $11.000 million supports the procurement of 150 Increment Ib projectiles.
Exhibit P-5, Cost Analysis: PB Amended 2014 Army


MDAP/MAIS Code: 366
Item Nomenclature (Item Number - Item Name, DODIC): E80100 - Proj 155mm Extended Range M982

Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
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<th>FY 2013#</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO##</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
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<td>2,287</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>58.074</td>
<td>122.629</td>
<td>67.896</td>
<td>11.000</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>424.638</td>
<td>58.074</td>
<td>122.629</td>
<td>67.896</td>
<td>11.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>58.074</td>
<td>122.629</td>
<td>67.896</td>
<td>11.000</td>
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Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost (Units in Dollars)

Hardware Cost

<table>
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<tr>
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<th>Quantity</th>
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Support Cost

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</table>

P-5 Remarks:

FY 2013 Program is from the FY 2013 President’s Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
### Exhibit P-5A, Budget Procurement History and Planning

**PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E80100 - Proj 155mm Extended Range M982

**Item Nomenclature:**
E80103 - PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR

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<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<td>C / FFP</td>
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<td>Dec 2013</td>
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<tr>
<td>COMPLETE ROUND</td>
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<td>C / FFP</td>
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<tr>
<td>COMPLETE ROUND</td>
<td>2014</td>
<td>RAYTHEON MISSILE SYSTEMS CO / TUCSON, AZ</td>
<td>C / FFP</td>
<td>PICATINNY ARSENAL, NJ</td>
<td>Apr 2014</td>
<td>Jun 2015</td>
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<td>CONTAINER, EXCALIBUR</td>
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<td>TO BE SELECTED / TBD</td>
<td>C / FFP</td>
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</table>

**Remarks:**
Support costs in FY 2012 are leveraging the same Engineering team that concurrently supports Increment Ia and Increment Ib.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Nomenclature:**
E80100 - Proj 155mm Extended Range M982

**Item Nomenclature:**
E80103 - PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR

**Date:**
May 2013

**Cost Elements**

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<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
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</thead>
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</table>

**Complete Round**

<table>
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<tr>
<th>yr</th>
<th>O M F C R O # FY SERVICE</th>
<th>PROC QTY</th>
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<th>BAL Due As Of 1 Oct</th>
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<tbody>
<tr>
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<td>1</td>
<td>2013 ARMY</td>
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<td>2,287</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-</td>
<td>-</td>
<td>A</td>
</tr>
<tr>
<td>1</td>
<td>2014 ARMY</td>
<td>952</td>
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<td>952</td>
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<tr>
<td></td>
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<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Notes:**

- Complete round
- Fiscal year 2013
- Calendar year 2013
- Fiscal year 2014
- Calendar year 2014

**Service Code:**

- Army
- Navy
- Air Force
- Marine Corps
- Space Force

**Cost Elements:**

- Complete round
- Fiscal year 2013
- Calendar year 2013
- Fiscal year 2014
- Calendar year 2014

**Budget Production Schedule:**

- PB Amended 2014 Army
- E80100 - Proj 155mm Extended Range M982
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 37: Artillery Ammunition

**P-1 Line Item Nomenclature:**
E80100 - Proj 155mm Extended Range M982

**Item Nomenclature:**
E80103 - PROJ, ARTY, 155MM EXTENDED RANGE M982-U EXCALIBUR

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### Cost Elements

<table>
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<th>M</th>
<th>F</th>
<th>R</th>
<th>FY</th>
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**Cost Elements** (Units in Each)

- **COMPLETE ROUND**
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<th>MFR #</th>
<th>MFR Name - Location</th>
<th>Production Rates (Each / Month)</th>
<th>Procurement Leadtime (Months)</th>
<th>Initial</th>
<th>Reorder</th>
<th>Total After Oct 1</th>
<th>Mfg PLT</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<td>40.00 200.00 250.00</td>
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<td>3</td>
<td>8</td>
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"A" in the Delivery Schedule indicated the Contract Award Date. Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**UNCLASSIFIED**

Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Program Elements for Code B Items:**

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<td>146,041</td>
<td>102,013</td>
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<td>177.706</td>
<td>187.068</td>
<td>108.476</td>
<td>57.000</td>
<td>165.476</td>
<td>94,787</td>
<td>100.177</td>
<td>102.410</td>
<td>182.824</td>
<td>Continuing</td>
<td>Continuing</td>
<td></td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>2,312.413</td>
<td>177.706</td>
<td>187.068</td>
<td>108.476</td>
<td>57.000</td>
<td>165.476</td>
<td>94,787</td>
<td>100.177</td>
<td>102.410</td>
<td>182.824</td>
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<td>Continuing</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
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<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>177.706</td>
<td>187.068</td>
<td>108.476</td>
<td>57.000</td>
<td>165.476</td>
<td>94,787</td>
<td>100.177</td>
<td>102.410</td>
<td>182.824</td>
<td>Continuing</td>
<td>Continuing</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions):**

| Flyaway Unit Cost (Units in Dollars) | - | - | - | - | - | - | - | - | - | - | - | - |

**Gross/Weapon System Unit Cost (Units in Dollars):**

| - | 1,431.82 | 1,280.93 | 1,063.35 | 1,373.83 | 1,153.12 | 1,457.88 | 1,387.30 | 1,340.16 | 909.88 | Continuing | Continuing |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**
This budget line procures all Hydra 70 rocket types in support of operational, training and war reserve requirements. The system provides combat overmatch capability and ensures the availability of munitions to support combat operations. This system of aerial rockets is used by Army aircraft (AH-64A/D Apache, OH-58D Kiowa Warrior and Special Operations aircraft) to perform a number of roles including anti-materiel, anti-personnel, air-to-ground suppression and illumination.

**NOTE:** QTY EA

**Item Schedule**

<table>
<thead>
<tr>
<th>Item Nomenclature*</th>
<th>Exhbits</th>
<th>ID CD</th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>E05302 - ROCKET HYDRA 70 FLECHETTE M295A1</td>
<td>P5, P5A, P21</td>
<td>A</td>
<td>-</td>
<td>268.738</td>
<td>-</td>
<td>-</td>
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<td>Replacement</td>
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<tr>
<td>ROCKET SMOKE 2.75 M156</td>
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<td>Replacement</td>
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<td>WIFUZE M423 WMTR NK40</td>
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<td>Replacement</td>
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<td>Rocket, Hydra 70, Flare Infrared (IR) M278</td>
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<td>-</td>
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<td>36.938</td>
<td>5,385.94</td>
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</table>

LI E37300 - Rocket, Hydra 70, All Types

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Page 1 of 23

P-1 Line #20
## Justification:

The Hydra-70 Product Office is the procurement agent for all services for 2.75 Rockets. This budget activity includes both training standard items and items that may be used in both training and combat. The FY2014 procurement supports annual training and builds a war reserve inventory in accordance with the Army's procurement goals. FY2014 Base procurement dollars in the amount of $108.476 million will procure 102,013 Hydra 70 rockets and the FY2014 OCO procurement dollars in the amount of $57.000 million will procure 41,490 Hydra 70 rockets. The Army intends to convert any price advantage created through contract negotiations, other service procurement, and/or Foreign Military Sale (FMS) into an increase of the Army's procurement of Hydra 70 Rockets. "In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities."
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E05302 - ROCKET HYDRA 70 FLECHETTE M255A1

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<tbody>
<tr>
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<td>1,060</td>
<td>6,644</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>Continual</td>
<td>Continuing</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>268,738</td>
<td>-</td>
<td>53,669</td>
<td>1,500</td>
<td>10,000</td>
<td>11,500</td>
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<td>Less FY Advance Procurement ($ in Millions)</td>
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<tr>
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<td>53,669</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<tr>
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(† indicates the presence of a P-5A)

### Cost Elements

**Cost Elements**

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<td>53,669</td>
<td>1,500</td>
<td>10,000</td>
<td>11,500</td>
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### FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

---

**LI E37300 - Rocket, Hydra 70, All Types**

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Page 3 of 23

P-1 Line #20

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Page 3 of 23

P-1 Line #20

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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E05302 - ROCKET HYDRA 70 FLECHETTE M255A1

**Date:** May 2013

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<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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<td>Quantity (Each)</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($)</td>
<td>Quantity (Each)</td>
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<td>Component Eng Spt (Other Gov't Agencies)</td>
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<tr>
<td>Total Recurring Cost</td>
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<tr>
<td>Total Flyaway Cost</td>
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**P-5 Remarks:**

**Secondary Distribution**

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<td>6,644</td>
<td>7,704</td>
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<td>Total Obligation Authority</td>
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Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

P-1 Line Item Nomenclature:
E37300 - Rocket, Hydra 70, All Types

Item Nomenclature:
E05302 - ROCKET HYDRA 70 FLECHETTE M255A1

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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tr>
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<td>General Dynamics / Williston</td>
<td>SS / FP</td>
<td>AMCOM, Redstone Arsenal, AL</td>
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<td>Aug 2014</td>
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<td>1,115.91</td>
<td>Y</td>
<td>Jul 2010</td>
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<td>†Complete Round</td>
<td>2014</td>
<td>Competitive Buy / Competitive Location</td>
<td>C / FFP</td>
<td>AMCOM, Redstone Arsenal, AL</td>
<td>Mar 2014</td>
<td>Sep 2015</td>
<td>7,704</td>
<td>1,150.70</td>
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Remarks:
- Sole Source/Fixed Price (SS/FP)
- Competitive/Firm Fixed Price (C/FFP)

FY 14 will be a competitive contract
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:** E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:** E05302 - ROCKET HYDRA 70 FLECHETTE M255A1

**Date:** May 2013

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<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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<td>38.375</td>
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<td>2</td>
<td>2014</td>
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<td>7.704</td>
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**Complete Round**

LI E37300 - Rocket, Hydra 70, All Types

UNCLASSIFIED

Army

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P-1 Line #20

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## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 45: Rockets

### P-1 Line Item Nomenclature:
E37300 - Rocket, Hydra 70, All Types

### Item Nomenclature:
E05302 - ROCKET HYDRA 70
AMBRETTTE M255A1

### Cost Elements (Units in Thousands)

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<td>OCT 1</td>
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<td>OCT 1</td>
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<td>FY 2014</td>
<td></td>
<td>FY 2015</td>
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<table>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2013</td>
<td>ARMY</td>
<td>38.375</td>
<td>38.375</td>
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<tr>
<td>2</td>
<td>2014</td>
<td>ARMY</td>
<td>7.704</td>
<td>7.704</td>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:** E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:** E05302 - ROCKET HYDRA 70 FLECHETTE M255A1

**Date:** May 2013

#### Cost Elements (Units in Thousands)

<table>
<thead>
<tr>
<th>FY Service</th>
<th>Proc Qty</th>
<th>ACcep Prior to 1 Oct</th>
<th>Bal Due As of 1 Oct</th>
<th>Fiscal Year 2016</th>
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<th>Fiscal Year 2017</th>
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**Complete Round**

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**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E05302 - ROCKET HYDRA 70 FLECHETTE M255A1

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<th>MAX</th>
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<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<td>6</td>
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</tbody>
</table>

**Remarks:**
Note: QTY EA for Delivery Schedule. Contractor minimum sustainment rate for the total of all variants is 80,000 rockets annually. The production rate shown in the table is a per variant monthly rate x 1000. Minimum production rate for MFR 1 is 300, database rounds down to 0. FY 14 will be competitive (MFR 2 production rates and lead times are TBD).

"A" in the Delivery Schedule indicated the Contract Award Date.
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## Resource Summary

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<tr>
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<td>44,910</td>
<td>4,511</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>16.903</td>
<td>45.620</td>
<td>5.100</td>
<td>35,000</td>
<td>40,100</td>
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(Continued)

## Cost Elements

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<th>P-1 Line Item Nomenclature:</th>
<th>E37300 - Rocket, Hydra 70, All Types</th>
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### FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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<thead>
<tr>
<th>FY 2015</th>
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<th>FY 2018</th>
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## Flyway Cost

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LI E373000 - Rocket, Hydra 70, All Types

## UNCLASSIFIED

### Date: May 2013

### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

### Item Nomenclature (Item Number - Item Name, DODIC):

E37335 - ROCKET HYDRA 70 HE/PD M151/M423
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E37335 - ROCKET HYDRA 70 HE/PD M151/M423

**Date:** May 2013

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<td>Quantity (Each)</td>
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**P-5 Remarks:**

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**Remarks:**
- Sole Source/Fixed Price (SS/FP)
- Competitive/Firm Fixed Price (C/FFP)
- FY 14 will be a competitive contract
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E37335 - ROCKET HYDRA 70 HE/PD M151/M423

**Date:** May 2013

---

### Cost Elements (Units in Thousands)

| 1   | 2012 | ARMY  | 6.240    | - | 6.240 | - | - | - | - | - | - | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.240 |
| 1   | 2013 | ARMY  | 44.910   | - | 44.910| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | - | - | - | - | - | - | 44.910 |
| 1   | 2014 | ARMY  | 33.898   | - | 33.898| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.898 |

Complete Round

---

### Cost Elements (Units in Thousands)

| 2012 | ARMY | 6.240 | - | 6.240 | - | - | - | - | - | - | A | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 6.240 |
| 2013 | ARMY | 44.910 | - | 44.910 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | A | - | - | - | - | - | 44.910 |
| 2014 | ARMY | 33.898 | - | 33.898 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 33.898 |
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

P-1 Line Item Nomenclature:
E37300 - Rocket, Hydra 70, All Types

Item Nomenclature:
E37335 - ROCKET HYDRA 70 HE/PD M151/M423

Cost Elements

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Complete Round

LI E37300 - Rocket, Hydra 70, All Types

UNCLASSIFIED

Page 14 of 23

P-1 Line #20
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E37335 - ROCKET HYDRA 70 HE/PD M151/M423

**UNCLASSIFIED**

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<th>Calendar Year 2017</th>
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**Complete Round**

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**UNCLASSIFIED**

LI E37300 - Rocket, Hydra 70, All Types

Army
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E37335 - ROCKET HYDRA 70 HE/PD M151/M423

### Production Rates (Each / Month)

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<td>ALT Prior to Oct 1</td>
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<td>General Dynamics - Williston, VT</td>
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<td>2</td>
<td>Competitive Buy - Competitive Location</td>
<td>*</td>
<td>.015</td>
<td>.030</td>
<td>6</td>
<td>7</td>
<td>22</td>
</tr>
</tbody>
</table>

### Remarks:

- Note: QTY EA for Delivery Schedule. Contractor minimum sustainment rate for the total of all variants is 80,000 rockets annually. The production rate shown in the table is a per variant monthly rate x 1000. Minimum production rate for MFR 1 is 300, database rounds down to 0. FY 14 will be competitive (MFR 2 production rates and lead times are TBD).

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<tr>
<td>Gross/Weapon System Cost</td>
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<td>Less FY Advance Procurement</td>
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<td>$ (in Millions)</td>
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<td>Plus CY Advance Procurement</td>
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(Units in Dollars)

### Initial Spares

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<th>FY 2014</th>
<th>FY 2014</th>
<th>FY 2015</th>
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<th>FY 2018</th>
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(Units in Millions)

### FY 2013 Program is from the FY 2013 President’s Budget, submitted February 2012

### This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Cost Elements

<table>
<thead>
<tr>
<th>ID</th>
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<th>FY 2013</th>
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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
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<td>Unit Cost ($ M)</td>
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**Flyaway Cost**

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<td></td>
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<td>Unit Cost ($ M)</td>
<td>Unit Cost ($ M)</td>
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**Recurring Cost**

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**To Complete**

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**Total Cost**

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Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 45: Rockets

P-1 Line Item Nomenclature:
E37300 - Rocket, Hydra 70, All Types

Item Nomenclature (Item Number - Item Name, DODIC):
E37337 - ROCKET HYDRA 70 SIG PRAC M274

Date: May 2013

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<tr>
<th>Cost Elements</th>
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<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
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<tbody>
<tr>
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<td>Unit Cost ($)</td>
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<td>Total Recurring Cost</td>
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<tr>
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P-5 Remarks:

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## Exhibit P-5A, Budget Procurement History and Planning

**PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E37337 - ROCKET HYDRA 70 SIG PRAC M274

**Date:** May 2013

### Cost Elements

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<tr>
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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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### Remarks:
- Sole Source/Fixed Price (SS/FP)
- Competitive/Firm Fixed Price (C/FFP)

FY 14 will be a competitive contract
### Cost Elements

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<td>107.846</td>
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<td>91.866</td>
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<td>Calendar Year 2014</td>
<td>Fiscal Year 2015</td>
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<td>O</td>
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Complete Round:

Army 2012

Total: 254,273

Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

P-1 Line Item Nomenclature:
E37300 - Rocket, Hydra 70, All Types

Item Nomenclature:
E37337 - ROCKET HYDRA 70 SIG
PRAC M274

Date: May 2013

UNCLASSIFIED
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E3737 - ROCKET HYDRA 70 SIG PRAC M274

**Date:** May 2013

#### Cost Elements (Units in Thousands)

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<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<tbody>
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<tr>
<td>C</td>
<td>FY</td>
<td>ACCTR</td>
<td>BAL</td>
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<td>O #</td>
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<td>DUE AS OF 1 OCT 2015</td>
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**Complete Round**

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**Cost Elements**

- Complete Round

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</table>
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Date: May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 45: Rockets

**P-1 Line Item Nomenclature:**
E37300 - Rocket, Hydra 70, All Types

**Item Nomenclature:**
E37337 - ROCKET HYDRA 70 SIG PRAC M274

**Production Rates (Each / Month) / Procurement Leadtime (Months)**

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<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>Initial</th>
<th>Reorder</th>
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<td>ALT Prior to Oct 1</td>
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<td>.035</td>
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<td>7</td>
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Remarks:
- Note: QTY EA for Delivery Schedule. Contractor minimum sustainment rate for the total of all variants is 80,000 rockets annually. The production rate shown in the table is a per variant monthly rate x 1000. Minimum production rate for MFR 1 is 300, database rounds down to 0. FY 14 will be competitive (MFR 2 production rates and lead times are TBD).
- "A" in the Delivery Schedule indicated the Contract Award Date.
- Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499, all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
E55400 - Demolition Munitions, All Types

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E55400 - Demolition Munitions, All Types

**Date:** May 2013

**Resource Summary**

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<tbody>
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<td>Procurement Quantity (Units in Each)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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*# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**

This budget line includes Demolition Munitions, All Types.

E45403 Receiver, Magneto-Inductive (MI) Firing Device (XM40) has the capability of detonating a secondary explosive lead, an M-7 non-electric military blasting cap or Modernized Demolition Initiator. It is the receiver for the M156 Remote Firing Device which can provide reliable wireless initiation of demolition charges through all mediums. This item is Code B, not approved for service use.

E50601 Charge Demolition Block Comp C-4 1-1/4 LB M112 is the primary demolition explosive used by the U.S. Army. The M112 Demolition Block is used for general demolition and, in particular, for destruction of captured enemy ammunition. The block demolition charge consists of 1-1/4 pounds of composition C-4 plastic explosive packed in a Mylar-film bag. Pressure sensitive adhesive tape is provided on one of the rectangular surfaces, allowing quick emplacement by the individual soldier on the object to be destroyed. The explosive may be cut and/or removed from its wrapper and hand molded into a desired shape suited to the target. Upon detonation, the shock wave destroys the target by cutting, breaching or cratering. This item is Code A, approved for service use.

E51300 Charge Demolition Block Cratering 40 pound is a demolition charge designed to destroy roads, bridge abutments, runways, buildings, fortifications and other concrete structures. It uses a low velocity explosive which destroys by a lifting and heaving motion rather than the cutting action of high velocity charges. This item is Code A, approved for service use.

E51400 Charge Demolition Sheet 50 Foot Roll, M186 is a flexible explosive. It is 3 inches wide and 1/4 inch thick. It can be easily cut and formed into various shapes and is primarily used as a cutting charge. This item is Code A, approved for service use.

E51300 Charge Demolition Block Cratering 40 pound is a demolition charge designed to destroy roads, bridge abutments, runways, buildings, fortifications and other concrete structures. It uses a low velocity explosive which destroys by a lifting and heaving motion rather than the cutting action of high velocity charges. This item is Code A, approved for service use.

E52400 Cap Blasting Non-Electric Inert is used for demonstration and for training in demolition work requiring non-electric blasting caps. Its only purpose is for demonstration and to give the operator the feel and training in the use of blasting caps. This item is Code A, approved for service use.
### Demolition Munitions, All Types

<table>
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<th>ID Code (A=Service Ready, B=Not Service Ready)</th>
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<th>Other Related Program Elements:</th>
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</table>

#### E52500 Cap Blasting Electric M6
- Cap Blasting Electric M6 is used to initiate high explosives. It is initiated by an electrical charge from a blasting machine or other source of electric power.
- The blasting cap M6 consists of a base charge of RDX, an intermediate charge of lead azide and an ignition charge of smokeless powder, potassium chlorate and lead salt of dinitro cresol in an aluminum alloy cup.
- Two 12-foot lead wires, connected by a bridge wire in the ignition charge, extend through a rubber plug assembly in the open end of the cup. This item is Code A, approved for service use.

#### E53200 Charge Demolition Shaped M3
- 40 pound shaped charge is used to blast craters in paved and unpaved roads and to bore holes in metals, masonry or concrete.
- It contains a 15-inch stand-off, 29.5 pound Comp B main charge and a .11 pound Comp A3 booster. This item is Code A, approved for service use.

#### E54100 Detonating Cord
- Used to prime and detonate explosive charges.
- Unlike the time fuze, which burns slowly, detonating cord burns almost instantaneously.

#### E55400 - Demolition Munitions, All Types
- Program Elements for Code B Items: E55400 - Demolition Munitions, All Types
- Other Related Program Elements: P-1 Line Item Nomenclature: E55400 - Demolition Munitions, All Types

#### E55400 - Demolition Munitions, All Types
- Unrelated Program Elements: P-1 Line Item Nomenclature: E55400 - Demolition Munitions, All Types

#### E56100 Detonating Cord
- Used to prime and detonate explosive charges.
- Unlike the time fuze, which burns slowly, detonating cord burns almost instantaneously.

#### E56718 Explosive Ordnance Disposal (EOD) items for Percussion Actuated Non-electric (PAN) disrupter
- EOD items are special 12-gauge cartridges for Standoff Disrupter Improvised Explosive Device (SD-IED) Tool (AKA "PAN Disrupter") that provide the EOD soldier with a set of cartridges specifically designed for disrupting various types of IEDs.
- Various cartridges enable use against different types of IEDs, such as soft case, pipe bomb, or hard case. These items are Code B, not approved for service use.

#### E56727 Charge Lightweight Disposable Disrupter
- A self-contained remotely initiated explosive charge which propels a 400 gram metal projectile to an average velocity of 550 feet per second.
- The disrupter is intended to propel the metal projectile to strike an explosive ordnance fuze, thereby rendering it safe. This item is Code B, not approved for service use.

#### E56728 MK 788-0, Main Charge Disrupter
- A device used to render-safe unexploded ordnance (UXO).
- Upon initiation, the device attacks and neutralizes the main charge explosive by generating reactions up to and including low-order detonations.

#### E56730 Demolition Assembly, Explosive Ordnance Disposal (EOD), Demolition Bar & Skin Pack Detonator F/ROBOT
- An EOD specific system for use with most of the robots currently employed by EOD personnel to neutralize improvised explosive devices (IEDs).
- The demo bar holds the 1000 foot skin pack with a detonator at one end and allows the user to attach and prime a neutralizing charge to the other end.
- The shock tube is deployed from the skin pack to the IED as the robot moves towards the IED, while the igniter remains in the possession of the operator. Upon arrival, the robot will set the demo bar down with the neutralizing end on the IED and then move to a safe distance. Once the robot is clear, the operator will command detonate the shock tube, setting off the neutralizing charge to eliminate the IED. This item is Code B, not approved for service use.
E81302 Cap Blasting Non-Elec, W/30 ft Shock Tube is part of the family of Modern Demolition Initiators (MDI). It consists of a blasting cap which is factory sealed to a length of shock tube. The tube is activated using an M81 igniter. A shock wave travels the length of the tube, with a delay measured in milliseconds, and ignites the blasting cap which in turn initiates the main charge. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. The 30 foot length is generally used as a linking charge for a series of demolitions. This item is Code A, approved for service use.

E81307 Igniter, Time Fuze and Shock Tube, M81 is a device, hand held by the individual soldier, with a small primer charge that will activate the M700 Time Fuze as well as a shock tube. It is the primary device for all non-electrical demolition initiation. This item is Code A, approved for service use.

E81310 Cap Blasting Inert, Non-Elec, Delay, M14 is an inert nondelay military sized blasting cap which is factory crimped to 7.5 feet of inert time fuze. This component is a trainer for the M14 blasting cap device for all non-electrical demolition initiation. This item is Code A, approved for service use.

E99903 Blast Cap, Non-Elec: 500Ft Minitube, M21 is part of the family of Modern Demolition Initiators (MDI). It consists of an initiating component used to activate standard military explosives and demolition devices. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. This item is Code A, approved for service use.

E99905 Blast Cap, Non-Elec, 1000Ft Minitube, M23 is part of the family of Modern Demolition Initiators (MDI). It consists of an initiating component used to activate standard military explosives and demolition devices. The MDI is not susceptible to electrostatic discharge or Radio Frequency (RF) jamming. This item is Code A, approved for service use.
### UNCLASSIFIED

**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army  
**Appropriation / Budget Activity / Budget Sub Activity:**  
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition  
**P-1 Line Item Nomenclature:**  
E55400 - Demolition Munitions, All Types  
**UNCLASSIFIED**

**Program Elements for Code B Items:**

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<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 may not be exact or add due to rounding.

**Justification:**

FY 2014 Base procurement dollars in the amount of $28,074 million supports production of 12 variants of Demolitions.  
FY 2014 OCO procurement dollars in the amount of $4.0 million supports production of 102,387 Demolition Blocks.

FY 2014 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed
missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations.”
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature:
E55400 - Demolition Munitions, All Types

Date: May 2013

Item Nomenclature (Item Number - Item Name, DODIC):
E45403 - RECEIVER, MAGNETO-INDUCTIVE FIRING DEVICE: XM40

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<th>FY 2014 OCO</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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Remarks:
TC DATE: June 2011
## P-1 Line Item Nomenclature:
- **E55400 - Demolition Munitions, All Types**

## Item Nomenclature:
- **E45403 - RECEIVER, MAGNETO-INDUCTIVE FIRING DEVICE: XM40**

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## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E55400 - Demolition Munitions, All Types

**Item Nomenclature:**
E45403 - RECEIVER, MAGNETO-INDUCTIVE FIRING DEVICE: XM40

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**LI E55400 - Demolition Munitions, All Types**

UNCLASSIFIED
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature:
E55400 - Demolition Munitions, All Types

Item Nomenclature:
E45403 - RECEIVER, MAGNETO-INDUCTIVE FIRING DEVICE: XM40

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Dollars) | 30,181.20 | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning:

**PB Amended 2014 Army**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**

2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**

E55400 - Demolition Munitions, All Types

**Item Nomenclature:**

E50601 - CHG DEMO BLK COMP C-4 1-1/4 LB M112

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**Remarks:**

FY13 procurement will be fixed price option to competitive contract that was awarded in FY09.
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LI E55400 - Demolition Munitions, All Types
ARMY

UNCLASSIFIED
Page 16 of 30
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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
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<th>FY 2014 OCO##</th>
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(The following Resource Summary rows are for informational purposes only: The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

| Initial Spares ($ in Millions) | - | - | - | - | - | - |

Gross/Weapon System Unit Cost (Units in Dollars)

| Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | 1457.91 | - | 1457.91 |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## FY 2014 Total

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Support Cost

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* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## FY 2014 Total

- **UNCLASSIFIED**
- **P-1 Line Item Nomenclature:** E55400 - Demolition Munitions, All Types
- **Resource Summary:**
- **Cost Elements:**
  - **Hardware Cost**
    - † LOAD, ASSEMBLE, PACK (LAP)
    - † COMP B TYPE I GRADE A
    - † COMP B TYPE I GRADE A
    - † ALUMINUM POWDER FLAKED
    - † ALUMINUM POWDER FLAKED
    - † COMP D-2
    - † COMP D-2
  - **Support Cost**
    - PRODUCTION ENGINEERING
    - QUALITY ASSURANCE
    - FIRST ARTICLE TEST
    - *GOVERNMENT FURNISHED MATERIAL**
- **Item Nomenclature (Item Number - Item Name, DODIC):** E51300 - CHG DEMO BLK CRATERING 40 LB
- **Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition
- **Exhibit P-5, Cost Analysis:** PB Amended 2014 Army
- **Date:** May 2013
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature:
E55400 - Demolition Munitions, All Types

Item Nomenclature (Item Number - Item Name, DODIC):
E51300 - CHG DEMO BLK CRATERING 40 LB

Date: May 2013

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<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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Total Weapon System Cost

P-5 Remarks:
### Exhibit P-5A, Budget Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:** E55400 - Demolition Munitions, All Types

**Item Nomenclature:** E51300 - CHG DEMO BLK CRATERING 40 LB

**Date:** May 2013

**Remarks:**
FY12 and FY13 procurements are fixed priced options to competitive contract.
FY14 New Contract

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Remarks:
FY12 and FY13 procurements are fixed priced options to competitive contract.
FY14 New Contract
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature: E55400 - Demolition Munitions, All Types

Item Nomenclature: E51300 - CHG DEMO BLK CRATERING 40 LB

Cost Elements (Units in Thousands)

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
- E55400 - Demolition Munitions, All Types

**Item Nomenclature:**
- E51300 - CHG DEMO BLK CRATERING 40 LB

**Date:** May 2013

### Cost Elements (Units in Thousands)

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## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E55400 - Demolition Munitions, All Types

**Item Nomenclature:**
E51300 - CHG DEMO BLK CRATERING 40 LB

### Cost Elements (Units in Thousands)

| FY   | SERVICE | PROC QTY | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S | B |
| 1    | 2012    | ARMY     | 6.964                 | -                   | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1    | 2012    | *MC      | 1.160                 | -                   | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1    | 2012    | TOTAL    | 8.124                 | -                   | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1    | 2013    | ARMY     | .682                  | -                   | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2    | 2014    | ARMY     | .891                  | .891                | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Cost Elements:**
LOAD, ASSEMBLE, PACK (LAP)

### Fiscal Year 2016

| 1    | 2012    | ARMY     | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1    | 2012    | *MC      | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1    | 2012    | TOTAL    | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 1    | 2013    | ARMY     | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2    | 2014    | ARMY     | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

**Date:** May 2013

**UNCLASSIFIED**

LI E55400 - Demolition Munitions, All Types

Army
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E55400 - Demolition Munitions, All Types

**Item Nomenclature:**
E51300 - CHG DEMO BLK CRATERING 40 LB

**Date:** May 2013

---

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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

FY 2014 Base Budget Request only submission of April 2013.
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

#### P-1 Line Item Nomenclature:
E55400 - Demolition Munitions, All Types

#### Item Nomenclature (Item Number - Item Name, DODIC):
E53200 - CHG DEMO SHAPED M3 40 LB

#### Date:
May 2013

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<td>Total Cost ($M)</td>
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**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning:

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E55400 - Demolition Munitions, All Types

**Item Nomenclature:**
E53200 - CHG DEMO SHAPED M3 40 LB

**Date:** May 2013

<table>
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<th>Contractor and Location</th>
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<th>Date Revsn Avail</th>
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**Remarks:**
FY13 and FY14 procurements will be fixed price options to competitive contract that was awarded in FY10.
### Cost Elements (Units in Thousands)

| MFR # | FY SERVICE | ACCEP PRIOR TO 1 OCT | BAL DUE AS OF 1 OCT | O | N | D | J | F | M | A | M | J | J | A | S | O | N | D | J | F | M | A | M | J | J | A | S |
| 1     | 2012 ARMY   | 4.140                | -                   | 122 | 0.545 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 | 0.539 |
| 1     | 2013 ARMY   | 3.220                | -                   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1     | 2013 TOTAL  | 4.379                | -                   | 1.159 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 | 2.312 |
| 1     | 2014 ARMY   | 2.022                | -                   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |
| 1     | 2014 TOTAL  | 2.312                | -                   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   | -   |

**Notes:**
- Fiscal Year 2012
- Calendar Year 2012
- Fiscal Year 2013
- Calendar Year 2013

---

**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E55400 - Demolition Munitions, All Types

**Item Nomenclature:**
E53200 - CHG DEMO SHAPED M3 40

**Date:** May 2013

**Page 28 of 30**
|--------|----|----|----|----|-----|-----|-----------------------|---------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

Cost Elements (Units in Thousands) | Fiscal Year 2014 | Calendar Year 2014 | Fiscal Year 2015 | Calendar Year 2015

LOAD, ASSEMBLE, PACK (LAP)
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:** E55400 - Demolition Munitions, All Types

**Item Nomenclature:** E53200 - CHG DEMO SHAPED M3 40 LB

<table>
<thead>
<tr>
<th>MFR</th>
<th>MFR Name - Location</th>
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<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
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<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
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† Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components’ exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E34000 - Grenades, All Types

**Resource Summary**

<table>
<thead>
<tr>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>1,147.672</td>
<td>37.558</td>
<td>33.477</td>
<td>33.242</td>
<td>3.000</td>
<td>36.242</td>
<td>34.954</td>
<td>34.761</td>
<td>36.038</td>
<td>40.475</td>
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<td>1,401.177</td>
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</tr>
<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>1,147.672</td>
<td>37.558</td>
<td>33.477</td>
<td>33.242</td>
<td>3.000</td>
<td>36.242</td>
<td>34.954</td>
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<td>36.038</td>
<td>40.475</td>
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<td>1,401.177</td>
</tr>
<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>37.558</td>
<td>33.477</td>
<td>33.242</td>
<td>3.000</td>
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<td>34.954</td>
<td>34.761</td>
<td>36.038</td>
<td>40.475</td>
<td>-</td>
<td>1,401.177</td>
</tr>
</tbody>
</table>

Initial Spares ($ in Millions)

Flyaway Unit Cost (Units in Dollars)

Gross/Weapon System Unit Cost (Units in Dollars)

## FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**

This budget line includes Grenades, All Types.

**E31900 - FUZE GRENADE HAND PRAC M228**

**DESCRIPTION:**

Fuze Grenade Hand Practice M228 is a pyrotechnic delay-igniting fuze (delay time of 4 to 5.5 seconds) for use with the M69 practice grenade body. The assembled grenade is identical in size, shape and weight to the M67 fragmentation hand grenade, and is used to learn and practice grenade throwing skills. The fuze contains a primer and a pyrotechnic delay column. A striker, striker spring, safety lever, safety pin with pull ring, safety clip, and igniter assembly are assembled to the body. This item is Code A, approved for service use.

**E32000 - GRENADE HAND FRAG DELAY M67**

**DESCRIPTION:**

Grenade Hand Fragmentation Delay M67 consists of a 2.5-inch diameter steel sphere that is designed to burst into numerous fragments when detonated. The grenade body is filled with 5.4 ounces of high explosive, Composition B. Each grenade is fitted with an M213 fuze that initiates the explosive charge 4 to 5.5 seconds after release of the safety lever. The M67 Hand Grenade provides the Warfighter with the capability to conduct pre-mobilization training and the capability to conduct close combat operations. This item is Code A, approved for service use.

**E32200 - GRENADE HAND INCENDIARY M14**

**DESCRIPTION:**

Grenade Hand Incendiary M14 provides the Warfighter with the capability to destroy weapons caches, artillery pieces, and vehicles by means of a chemical reaction that produces intense heat, called a thermite reaction. In this reaction, powdered aluminum metal and iron oxide react to produce a stream of molten iron and aluminum oxide. This reaction produces a tremendous amount of heat, burning at 2,200 degrees Celsius (3,992 degrees Fahrenheit). Other advantages include its ability to function without an external oxygen source, allowing it to burn underwater. This item is Code A, approved for service use.

**E33800 - GRENADE HAND RIOT CS M7A3**
**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army  
**Date:** May 2013

<table>
<thead>
<tr>
<th>Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other</th>
<th>P-1 Line Item Nomenclature: E34000 - Grenades, All Types</th>
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<td>MDAP/MAIS Code(s):</td>
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</table>

**DESCRIPTION:**  
Grenade Hand Riot CS M7A3 is used to control counter-insurgencies and for other tactical missions. It is a burning-type riot control grenade that is filled with CS (ortho-chlorobenzalmalonitrile) irritant agent (i.e., tear gas) and may be used to simulate casualty agents during training. When functioned, the grenade emits CS riot control agent for 15 to 35 seconds. This item is Code A, approved for service use.

**E34001 - GRENADE HAND SMOKE GREEN M18**
**DESCRIPTION:**  
Grenade Hand Smoke Green M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a green smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

**E34002 - GRENADE HAND SMOKE YELLOW M18**
**DESCRIPTION:**  
Grenade Hand Smoke Yellow M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a yellow smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

**E34003 - GRENADE HAND SMOKE RED M18**
**DESCRIPTION:**  
Grenade Hand Smoke Red M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a red smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

**E34004 - GRENADE HAND SMOKE VIOLET M18**
**DESCRIPTION:**  
Grenade Hand Smoke Violet M18 is used by the Warfighter for ground-to-air or ground-to-ground signaling while conducting training and combat operations. Each grenade will emit smoke for 50 to 90 seconds. The grenade body is made of thin sheet metal, filled with starter patches and a violet smoke composition. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

**E34005 - GRENADE HAND SMOKE VISUAL RESTRICTED TERRAIN M106**
**DESCRIPTION:**  
Grenade Hand Smoke Visual Restricted M106 rapidly produces a short duration obscurant cloud that provides the Warfighter the capability to obscure the light visible spectrum within restrictive terrain, such as caves and urban structures. It is non-toxic and designed to be safer than current smoke grenades. The fill is non-combustible, non-burning Titanium Dioxide. This item is Code A, approved for service use.

**E69300 - GRENADE HAND SMOKE WHITE M83**
**DESCRIPTION:**  
Grenade Hand Smoke (White) M83 provides the Warfighter the capability to generate white smoke for screening activities while conducting small unit operations. It is also used for ground-to-air signaling. This grenade is the tactical replacement for the M8 HC Smoke Grenade, which was found to be carcinogenic. The duration of smoke screen or signal is 25 to 70 seconds, average burn time. The grenade body is a cylinder of thin sheet metal. It is filled with non-toxic smoke mixture topped with a starter patch. The Hand Grenade Fuze M201A1 is a pyrotechnic delay-igniting fuze. The body contains a primer, first-fire mix, pyrotechnic delay column, and ignition mixture. Assembled to the body are a striker, striker spring, safety lever, and safety pin with pull ring. This item is Code A, approved for service use.

**E93500 - GRENADE RIFLE ENTRY MUNITION, M100**
**DESCRIPTION:**  
Grenade RIFLE ENTRY MUNITION, M100
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<th>FY 2014 OCO</th>
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<td>37.558</td>
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</table>

*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5, Name for the P18 and P23, Modification Number and Modification Title for the P3A, Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
The FY 2014 Base procurement dollars in the amount of $33.242 million supports procurement of seven variants of Grenades. The FY 2014 OCO procurement dollars in the amount of $3.000 million supports procurement of one variant of Grenades.
FY14 Base Budget supports critical Army Title 10 war reserve/operational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units’ ongoing military operations."
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

### P-1 Line Item Nomenclature:
- E34000 - Grenades, All Types

### Item Nomenclature (Item Number - Item Name, DODIC):
- E31900 - FUZE GRENADE HAND PRAC M228

### Resource Summary

<table>
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<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>6.299</td>
<td>3.016</td>
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### Cost Elements

#### Hardware Cost

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#### Support Cost

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</table>

### P-5 Remarks:

*FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

*This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.*
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

#### Date: May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E34000 - Grenades, All Types

**Item Nomenclature:**
E31900 - FUZE GRENADE HAND PRAC M228

#### Remarks:
FY 2013 hardware unit price based on average price of two vendors.

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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
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<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E34000 - Grenades, All Types

**Item Nomenclature:**
E31900 - FUZE GRENADE HAND PRAC M228

**Date:** May 2013

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| 1 2013 ARMY | 123.230 | 71.885 | 51.345 | 10.269 | 10.269 | 10.269 | 10.269 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1 2013 AF   | 6.581   | 3.841 | 2.740  | 0.548  | 0.548  | 0.548  | 0.548  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 2013 ARMY | 184.845 | 107.830 | 77.015 | 15.403 | 15.403 | 15.403 | 15.403 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 2 2013 AF   | 9.872   | 5.762 | 4.110  | 0.822  | 0.822  | 0.822  | 0.822  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 1 2013 TOTAL | 129.811 | 75.726 | 54.085 | 10.817 | 10.817 | 10.817 | 10.817 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 3 2014 ARMY | 329.066 | - | 329.066 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 2014 AF   | 34.896  | - | 34.896  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 2014 TOTAL | 363.962 | - | 363.962 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

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UNCLASSIFIED
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**COMPLETE ROUND**

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**TOTAL**

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**P-1 Line Nomenclature:**

- **E34000 - Grenades, All Types**
- **Item Nomenclature:**
  - **E31900 - FUZE GRENADE HAND PRAC M228**
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01:
  - Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
- E34000 - Grenades, All Types

**Item Nomenclature:**
- E31900 - FUZE GRENADE HAND PRAC M228

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‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
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Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature: E34000 - Grenades, All Types

Item Nomenclature (Item Number - Item Name, DODIC): E32000 - GRENADE HAND FRAG DELAY M67

Date: May 2013

Resource Summary

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<th>FY 2014 OCO</th>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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P-5 Remarks:

LI E34000 - Grenades, All Types

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Page 11 of 22

P-1 Line #22
Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature: E34000 - Grenades, All Types

Item Nomenclature: E32000 - GRENADE HAND FRAG DELAY M67

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<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
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UNCLASSIFIED

EXHIBIT P-21, BUDGET PRODUCTION SCHEDULE: PB AMENDED 2014 ARMY

APPROPRIATION / BUDGET ACTIVITY / BUDGET SUB ACTIVITY:
2034A: PROCUREMENT OF AMMUNITION, ARMY / BA 01:
AMMUNITION / BSA 47: OTHER AMMUNITION

P-1 LINE ITEM NOMENCLATURE:
E34000 - GRENADES, ALL TYPES

ITEM NOMENCLATURE:
E32000 - GRENADE HAND FRAG
DELAY M67

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<tr>
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LI E34000 - GRENADES, ALL TYPES

UNCLASSIFIED
Page 13 of 22

P-1 Line #22

279
### Complete Grenade

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E34000 - Grenades, All Types

**Item Nomenclature:**
E32000 - GRENADE HAND FRAG DELAY M67

#### Fiscal Year 2016

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<td><em>MC</em></td>
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<tr>
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### Fiscal Year 2017

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**Note:**
- Complete GRENADE
- All values are in thousands of dollars.

**Cost Elements (Units in Thousands):**
- Fiscal Year 2016
- Calendar Year 2016
- Fiscal Year 2017
- Calendar Year 2017

**Appropriation / Budget Activity / Budget Sub Activity:**
- Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**Item Nomenclature:**
- E34000 - Grenades, All Types
- E32000 - GRENADE HAND FRAG DELAY M67
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<th>Initial ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
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<td>DAY &amp; ZIMMERMANN LONE STAR - TEXARKANA, TX</td>
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<td>6</td>
<td>18</td>
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</table>

‡ Delivery rows marked with the ◆ symbol indicate that they are funded through a separate Line Item. See the respective components' exhibits for details, including the full delivery schedule.

*A* in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

Resource Summary

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<th>Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>104,192</td>
<td>138,510</td>
<td>196,989</td>
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</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>87.150</td>
<td>4.820</td>
<td>6.548</td>
<td>6.733</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>4.820</td>
<td>6.548</td>
<td>6.733</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) - - - - - -
Gross/Weapon System Unit Cost (Units in Dollars) - - - 34.18 - 34.18

Hardware Cost

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<th>All Prior Years</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>19.94</td>
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<td>4.62</td>
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<td>† GRENADE, METAL PARTS SET</td>
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<td>1.65</td>
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<td>Total Hardware Cost</td>
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<td>2.777</td>
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Support Cost

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<th>FY 2013</th>
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E34000 - Grenades, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):**
E69300 - GRENADE HAND SMOKE (WHITE) M83

**P-5 Remarks:**

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LI E34000 - Grenades, All Types

**UNCLASSIFIED**

**Date:** May 2013

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Army

**UNCLASSIFIED**

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**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army  
**Date:** May 2013

### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

### P-1 Line Item Nomenclature:
E34000 - Grenades, All Types

### Item Nomenclature:
E69300 - GRENADE HAND SMOKE (WHITE) M83

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<th>Date of First Delivery</th>
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<th>Unit Cost ($)</th>
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<th>Date Revsn Avail</th>
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**Remarks:**
FUZE HAND GRENADE M201A1 FY12-14 procurements will be fixed price options to competitive contract awarded in FY 2009. GRENADE, METAL PARTS SET FY12-13 procurements will be fixed price options to competitive contract awarded in FY 2009.
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
- E34000 - Grenades, All Types

**Item Nomenclature:**
- E69300 - GRENADE HAND SMOKE (WHITE) M83

**Date:** May 2013

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<td>BAL DUE AS OF 1 OCT</td>
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<td>C O E A E A P A U U U E C O E A E A P A U U U E A</td>
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<tr>
<td>1 2014 ARMY</td>
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<td>- 196.989</td>
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**P-1 Line #22**

LI E34000 - Grenades, All Types

**UNCLASSIFIED**

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P-1 Line #22
### Cost Elements

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<th>BAL DUE AS OF 1 OCT</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

#### P-1 Line Item Nomenclature:
E34000 - Grenades, All Types

#### Item Nomenclature:
E69300 - GRENADE HAND SMOKE (WHITE) M83

#### Date: May 2013

#### Fiscal Year 2014

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### Calendar Year 2014

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### Fiscal Year 2015

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### Calendar Year 2015

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### Cost Elements

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<tr>
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</tr>
</tbody>
</table>

### LI E34000 - Grenades, All Types

**Army**
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature: E34000 - Grenades, All Types

Item Nomenclature: E69300 - GRENADE HAND SMOKE (WHITE) M83

**Provision Rates (Each / Month)**

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<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
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<tr>
<td>1</td>
<td>PINE BLUFF ARSENAL - PINE BLUFF, AR</td>
<td>60.000</td>
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**Procurement Leadtime (Months)**

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<tr>
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<th>Reorder</th>
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<tbody>
<tr>
<td>ALT Prior to Oct 1</td>
<td>ALT After Oct 1</td>
<td>Mfg PLT</td>
<td>Total After Oct 1</td>
<td>ALT Prior to Oct 1</td>
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<td>Mfg PLT</td>
<td>Total After Oct 1</td>
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<td>8</td>
<td>18</td>
<td>26</td>
<td>6</td>
<td>6</td>
<td>15</td>
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**Remarks:**
All M18/M83 Smoke Grenades are produced on the same assembly line. Production rates and leadtimes apply for the family of Smoke Grenades. The order of production by color is changed based on need.

"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to than 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
## P-1 Line Item Nomenclature:
E46900 - Signals, All Types

### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

### ID Code (A=Service Ready, B=Not Service Ready):

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</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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### Initial Spares ($ in Millions):
- - - - - - - - - - - - -

### Flyaway Unit Cost (Units in Dollars):
- - - - - - - - - - - - -

### Gross/Weapon System Unit Cost (Units in Dollars):
- - 20,469K - - - - - - 0.10 -

---

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Description:
This budget line includes Signals, All Types.

#### Description:
E49100 - Flare, AC Countermeasure, M206 Magnesium Teflon IR
The M206 flares are part of a family of advanced IR decoy flares designed for use by Army helicopters and fixed wing aircraft to meet advanced threats in current and future operational environments. This flare is a magnesium Teflon flare. When used together with the M212, a spectrally matched flare, and the M211, a pyrophoric alloy material payload that reacts with air to emit intense IR radiation, it provides protection against a wide range of surface to air threats. This item is Code A, approved for service use.

#### Description:
E57600 - CTG, 25.4MM, Decoy, Chaff, M839
The M839 cartridge is a decoy designed for use by Army helicopters and fixed wing aircraft against radar controlled weapon systems. The M839 is in a 1x1x8 form factor in a plastic case. The decoy payload is composed of strands of aluminum coated glass fibers. The decoy consists of a piston, several bundles of chaff dipoles, and a felt spacer and is sealed with a plastic end cap. The M839 is delivered with the M796 impulse cartridge. The cartridge is fired by electrical initiation of the impulse cartridge, where the payload blooms into a radar reflecting cloud that breaks lock on by radar controlled weapons systems. This item is Code A, approved for service use.

#### Description:
E88900 - Flare AC Countermeasure M211 Pyrophoric Msl IR Decoy
These flares are part of a family of advanced infrared (IR) decoy flares designed for use by Army helicopters and fixed wing aircraft to meet advanced threats in current and future operational environments. The M211 uses a special high surface area metal foil, which rapidly oxidizes when exposed to oxygen. When one of the flares is dispensed from the host aircraft, the special pyrophoric alloy material payload reacts
E46900 - Signals, All Types

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

MDAP/MAIS Code(s):

- with air to emit intense IR radiation that is not visible to the naked eye. The IR radiation diverts heat-seeking missiles away from the aircraft. When used together with the M212, a spectrally matched flare, and the M206, a magnesium Teflon flare, the flares provide protection against a wide range of surface to air threats. This item is Code A, approved for service use.

Description:
E44600 - SIGNAL KIT PERSONNEL DISTRESS RED FP AP/25S-5
The Personnel Distress Signal Kit (Red) is primarily used by downed airmen or others exposed to emergency escape and evasion situations. There are seven (7) red signals in a Kit, one (1) hand fired launcher, and one (1) bandoleer assembly. The signals are propelled by a rocket motor with a delay and are capable of penetrating foliage. This item is Code A, approved for service use.

Description:
E46400 - Signal, Hand Held Red Star Cluster M158
The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M158 is the red star cluster signal used primarily as a distress signal. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.

Description:
E46500 - Signal, Hand Held White Star Cluster M159
The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M159 is a white star cluster used primarily for signaling. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.

Description:
E46700 - Signal, Hand Held Red Parachute Flare M126A1
The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M126A1 is a red parachute flare used primarily as a distress signal. The flare burns for approximately 30 seconds. This item is Code A, approved for service use.

Description:
E46800 - Signal, Hand Held White Parachute Flare M127
The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M127A1 is a white parachute flare used primarily for illumination. The flare burns for approximately 30 seconds. This item is Code A, approved for service use.

Description:
E47000 - Signal, Hand Held Green Star Cluster M125A1
The Family of Hand Held Signals which are individually launched pyrotechnics used for signaling and illuminating missions. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. M125A1 is used for signaling and illuminating missions. The payload is a cluster of five flares that burn for approximately 10 seconds. This item is Code A, approved for service use.

Description:
E48300 - Signal, Hand Held Green Parachute Flare M195
The Family of Hand Held Signals are individually launched pyrotechnics used for signaling and illumination. The payload is launched by a small, fin stabilized rocket and reaches a height of 725 feet. The M195 is a green parachute flare used primarily for signaling. The flare burns for approximately 30 seconds. This item is Code A, approved for service use.

Description:
E49105 - Cartridge, Impulse BBU-35/B
The BBU-35/B Impulse Cartridge is used to ignite and/or eject aircraft countermeasure flares, decoys and chaff (M206, M212, M211 and M1/M839) designed to protect Army helicopters and fixed wing aircraft against Man-portable Air Defense Systems (MANPADS). The BBU-35/B replaces the M796 impulse cartridge used by the Army. The impulse cartridge functions after receiving an electrical signal from the Common Missile Warning System (CMWS). The impulse cartridge produces hot gases that ignites/pushes the flare/decoy payload out of the host aircraft. This item is Code A, approved for service use.
### Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

### P-1 Line Item Nomenclature:
E46900 - Signals, All Types

#### ID Code (A=Service Ready, B=Not Service Ready):

<table>
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<th>Program Elements for Code B Items:</th>
<th>Other Related Program Elements:</th>
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#### MDAP/MAIS Code(s):

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<th>Item Nomenclature*</th>
<th>Exhibits</th>
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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>CTG, 25.4MM, DECOY, CHAFF, M839 / RR170 / Series</td>
<td>P40A</td>
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<td>E62900 - SMOKE PRT PRACTICE M6</td>
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<td>E88900 - Flare AC Control Mute M211 Pyrophoric M1 IR Decoy</td>
<td>P5, P5A, P21</td>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

#### Justification:
FY 2014 Base procurement dollars in the amount of $7.609 million supports production of 7 variants of Signals.

FY 2014 OCO procurement dollars in the amount of $8.000 million supports production of 2 variants of Signals.

FY 2014 Base Budget supports critical Army Title 10 war reserve/opertational, training, and test requirements IAW DoD Instruction 3000.04 (Munitions Requirements Process) and AR 5-13 (Total Army Munitions Requirements Process and Prioritization System). War reserve requirements support OSD-approved Combatant Commander Operational Plans, Homeland Defense, and other OSD-directed missions. Training requirements support individual and collective training of Active and Reserve Component forces at Army schools, home station, and the combined training centers. Test requirements support the development, fielding, safety, and quality assurance of Army munitions and equipment throughout their life-cycle.

FY 2014 OCO request supports procurement of critical Army munitions consumed in support of deployed units' ongoing military operations."
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tr>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>34.165</td>
<td>5.000</td>
<td>3.039</td>
<td>4.000</td>
<td>4.000</td>
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<td>Less FY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
<td>34.165</td>
<td>5.000</td>
<td>3.039</td>
<td>4.000</td>
<td>4.000</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Dollars) | - | - | - | 1,168.22 | 1,168.22 |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Cost Elements

<table>
<thead>
<tr>
<th>All Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Hardware Cost</td>
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<td></td>
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<tr>
<td>† LOAD, ASSEMBLE, PACK (LAP)</td>
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<td>-</td>
<td>576.02</td>
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<td>2.665</td>
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<td>† Smoke Pot Metal Parts Kit</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>† Fuze, Smoke Pot</td>
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<td>-</td>
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<tr>
<td>Total Recurring Cost</td>
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<td>Total Hardware Cost</td>
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<td>2,655</td>
<td>1,064</td>
<td>2.885</td>
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</table>

| Support Cost | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| PRODUCTION ENGINEERING | - | - | 0.001 | - | - | 0.782 | - | - | 1.205 | - | - | 1.112 | - | - | - | - | 1.112 |
| QUALITY ASSURANCE | - | - | - | - | - | 0.004 | - | - | - | - | - | - | - | - | - | - | - |
| PRODUCT IMPROVEMENT | - | - | - | - | - | 0.611 | - | - | - | - | - | - | - | - | - | - | - |
| SAFETY IMPROVEMENTS TO SMOKE MIX | - | - | - | - | - | 0.500 | - | - | 0.320 | - | - | - | - | - | - | - | - |
| FUZE ADAPTOR QUALIFICATION M208 | - | - | - | - | - | 0.100 | - | - | 0.200 | - | - | - | - | - | - | - | - |
| M208 REQUALIFICATION TEST PLAN | - | - | - | - | - | 0.339 | - | - | 0.250 | - | - | - | - | - | - | - | - |
| Total Support Cost | - | - | 2.336 | - | - | 1.975 | 1.116 | - | - | - | - | - | - | - | - | - | - |

(P-1 Line Item Nomenclature:
E46900 - Signals, All Types

Item Nomenclature (Item Number - Item Name, DODIC):
E62900 - SMOKE POT PRACTICE M8

LI E46900 - Signals, All Types

Army

UNCLASSIFIED

Page 5 of 16

P-1 Line #23

293
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:** E46900 - Signals, All Types

**Item Nomenclature (Item Number - Item Name, DODIC):** E62900 - SMOKE POT PRACTICE M8

**Date:** May 2013

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<th>All Prior Years</th>
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<th>FY 2013</th>
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<td>Gross Weapon System Cost</td>
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**P-5 Remarks:**
### Exhibit P-5A, Budget Procurement History and Planning

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
- E46900 - Signals, All Types

**Item Nomenclature:**
- E62900 - SMOKE POT PRACTICE M8

<table>
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<tr>
<th>Cost Elements</th>
<th>OCO FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
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<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
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<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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**Remarks:**
Type Classified: 1994. FUZE, SMOKE POT FY14 procurements will be fixed price options to competitive contract awarded in FY2009.
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**P-1 Line #23**

LI E46900 - Signals, All Types

UNCLASSIFIED

Page 8 of 16

P-1 Line #23
### P-1 Line Item Nomenclature

<table>
<thead>
<tr>
<th>Item Nomenclature:</th>
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### Item Nomenclature

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<tbody>
<tr>
<td>E62900 - SMOKE POT PRACTICE M8</td>
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### Cost Elements

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<th>Units in Each</th>
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<th>Fiscal Year 2015</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Calendar Year 2014</td>
<td>Calendar Year 2015</td>
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#### LOAD, ASSEMBLE, PACK (LAP)

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<tr>
<th>OCR #</th>
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<th>QTY</th>
<th>OCR #</th>
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<th>QTY</th>
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<th>QTY</th>
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<th>FY 2015</th>
<th>QTY</th>
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<tr>
<td>1</td>
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<td>ARMY</td>
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**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**

<table>
<thead>
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<th>Appropriation / Budget Activity / Budget Sub Activity:</th>
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<tbody>
<tr>
<td>2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition</td>
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**P-1 Line Item Nomenclature:**

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<th>P-1 Line Item Nomenclature:</th>
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</thead>
<tbody>
<tr>
<td>E46900 - Signals, All Types</td>
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</tbody>
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**UNCLASSIFIED**

**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature:
E46900 - Signals, All Types

Item Nomenclature:
E62900 - SMOKE POT PRACTICE M8

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<th>MFR #</th>
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<th>1-8-5</th>
<th>MAX</th>
<th>Initial ALT Prior to Oct 1</th>
<th>Reorder ALT Prior to Oct 1</th>
<th>Initial ALT After Oct 1</th>
<th>Reorder ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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</thead>
<tbody>
<tr>
<td>1</td>
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<td>23.00</td>
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<td>23.00</td>
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</tbody>
</table>

"A" in the Delivery Schedule indicated the Contract Award Date.
Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Resource Summary

<table>
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<tr>
<th></th>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
<td>-</td>
<td>48,240</td>
<td>-</td>
<td>-</td>
<td>48,000</td>
<td>48,000</td>
</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>209.625</td>
<td>11.041</td>
<td>12.763</td>
<td>-</td>
<td>6.000</td>
<td>6.000</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>209.625</td>
<td>11.041</td>
<td>12.763</td>
<td>-</td>
<td>6.000</td>
<td>6.000</td>
</tr>
<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>209.625</td>
<td>11.041</td>
<td>12.763</td>
<td>-</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Cost Elements

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<tbody>
<tr>
<td></td>
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<td>Unit Cost ($</td>
<td>Quantity</td>
<td>Total Cost</td>
<td>Unit Cost</td>
<td>Quantity</td>
<td>Total Cost</td>
</tr>
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<td>Hardware Cost</td>
<td></td>
<td>($)</td>
<td>(Each)</td>
<td>($ M)</td>
<td>($)</td>
<td>(Each)</td>
<td>($ M)</td>
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<tr>
<td>† COMPLETE FLARE</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<td>48,240</td>
<td>5.055</td>
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<tr>
<td>Total Recurring Cost</td>
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<td>-</td>
<td>-</td>
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<td>12.058</td>
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<td>0.705</td>
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<td>0.705</td>
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<td>0.705</td>
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<tr>
<td>Gross Weapon System Cost</td>
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<td>12.763</td>
<td>-</td>
<td>6.000</td>
<td>6.000</td>
<td></td>
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</table>

### P-5 Remarks:

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012.

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

Initial Spares ($ in Millions) - - - - - -

Gross/Weapon System Unit Cost (Units in Dollars) - - - - - -

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## FY 2014 OCO## FY 2014 Total
### Exhibit P-5A, Budget Procurement History and Planning

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature: E46900 - Signals, All Types

Item Nomenclature: E88900 - Flare AC Cntermeasure M211 Pyrophoric MsI IR Decoy

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<th>Cost Elements († indicates the presence of a P-21)</th>
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<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tr>
<td>†COMPLETE FLARE 2012</td>
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<td>PICATINNY ARSENAL, NJ</td>
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<td>Mar 2013</td>
<td>48,240</td>
<td>104.78</td>
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<td>ALLOY SURFACES COMPANY INC. / ASTON, PA</td>
<td>SS / FFP</td>
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<tr>
<td>†COMPLETE FLARE ✓ 2014</td>
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<td>TO BE SELECTED / TBS01</td>
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Remarks:
- Type Classified: November 2002.
**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E46900 - Signals, All Types

**Item Nomenclature:**
E88900 - Flare AC Countermeasure M211 Pyrophoric Missile IR Decoy

**Date:** May 2013

<table>
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<th>Cost Elements (Units in Each)</th>
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<th>Calendar Year 2012</th>
<th>Fiscal Year 2013</th>
<th>Calendar Year 2013</th>
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<td>R</td>
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<td>✓ 2 2014 ARMY (III)</td>
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**Exhibit P-21, Budget Production Schedule:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E46900 - Signals, All Types

**Item Nomenclature:**
E88900 - Flare AC Cntermeasure M211 Pyrophoric Msl IR Decoy

### Cost Elements

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<th>PROC QTY</th>
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<th>M</th>
<th>C</th>
<th>O</th>
<th>R</th>
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<tbody>
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<td>COMPLETE FLARE</td>
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<td>4,020</td>
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<tr>
<td>2</td>
<td>2013</td>
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<td>-</td>
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### Fiscal Year 2014

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</table>

**Date:** May 2013

**UNCLASSIFIED**
**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01:
Ammunition / BSA 47: Other Ammunition

**P-1 Line Item Nomenclature:**
E46900 - Signals, All Types

**Item Nomenclature:**
E88900 - Flare AC Cntermeasure M211
Pyrophoric Msl IR Decoy

<table>
<thead>
<tr>
<th>Cost Elements (Units in Each)</th>
<th>Fiscal Year 2016</th>
<th>Calendar Year 2016</th>
<th>Fiscal Year 2017</th>
<th>Calendar Year 2017</th>
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<td>Complete Flare</td>
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<td></td>
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<tr>
<td></td>
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</table>

**Fiscal Year 2016**

- **COFRO #**
- **SERVICE**
- **Fiscal Year 2016**
- **Calendar Year 2016**
- **Calendar Year 2017**

**Fiscal Year 2017**

- **Fiscal Year 2017**
- **Calendar Year 2017**

**Item Nomenclature:**
E88900 - Flare AC Cntermeasure M211
Pyrophoric Msl IR Decoy

**UNCLASSIFIED**

**Page 15 of 16**

**P-1 Line #23**
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 47: Other Ammunition

P-1 Line Item Nomenclature: E46900 - Signals, All Types

Item Nomenclature: E88900 - Flare AC Countermeasure M211 Pyrophoric Missile IR Decoy

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>ALLOY SURFACES COMPANY INC. - ASTON, PA</td>
<td>5,000.00</td>
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<td>23</td>
<td>6</td>
<td>6</td>
<td>6</td>
<td>12</td>
</tr>
</tbody>
</table>

*"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,999 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,999 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:

(III) S
### Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2034A: Procurement of Ammunition, Army / BA 01: Ammunition / BSA 50: Miscellaneous

**P-1 Line Item Nomenclature:**
EA0003 - CAD/PAD All Types

**Date:** May 2013

---

**Resource Summary**

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<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
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</tr>
</tbody>
</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**
- - - - - - - - - - -

**Flyaway Unit Cost (Units in Dollars)**
- - - - - - - - - - -

**Gross/Weapon System Unit Cost (Units in Dollars)**
- - - - - - - - - - -

---

**FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012**

**This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013**

**Description:**
Includes Cartridge Actuated Devices (CAD) and Propellant Actuated Devices (PAD) all types.

CAD/PAD are used in various escape and jettison systems on all types of Army aircraft. They are required to support aircraft escape, safety, and jettison systems and mission essential needs. Items are subject to shelf and service life restrictions and, therefore, require replacement at specified intervals.

---

**Justification:**
The FY 2014 Base and OCO program is required to assure availability of replacement items when needed and avoid grounding aircraft or rendering aircraft partially mission capable.
Department of Defense
Fiscal Year (FY) 2014 Amended Budget Estimate
May 2013

Army
Justification Book
Other Procurement, Army
Tactical and Support Vehicles, Budget Activity 1
UNCLASSIFIED
Army • Amended Budget Estimate FY 2014 • Procurement

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### Line Item Table of Contents (by Appropriation then Line Number)

**Appropriation 2035A: Other Procurement, Army**

<table>
<thead>
<tr>
<th>Line #</th>
<th>BA</th>
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### Resource Summary

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# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

#\ast This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Description:

This budget line implements the Army's plan to upgrade the Mine Resistant, Ambush Protected (MRAP) fleet returning from theater for Army enduring requirements, as well produce/procure materiel solutions to evolving threats in response to urgent warfighter requests as needed. The Army Vice Chief of Staff approved the MRAP All-Terrain Vehicle (MATV), the MaxxPro Dash with Independent Suspension System (ISS) and the MaxxPro Plus Ambulance ISS as the Army's three MRAP enduring variants following the completion of MRAP Study III.

These vehicles were originally procured in response to Operational Needs Statements, Joint Urgent Operational Needs Statements, and Universal Urgent Needs Statements to meet wartime requirements to mitigate the effects of Improvised Explosive Devices, underbody mines, rocket propelled grenades, and small arms threats. RG31s and RG33L+s planned for conversion to route clearance vehicles funded through the OPA-1 Modification of In-Service Equipment line (DA0924). FY14 OCO funding will upgrade the MRAP enduring variants MATV, MaxxPro DASH Independent Suspension System (ISS), and MaxxPro Plus Ambulances ISS. All other MRAP variants will be divested.

### Fiscal Year Distribution

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**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 01: Tactical and Support Vehicles / BSA 10: D03002 - Mine-Resistant Ambush-Protected (MRAP) Mods

**Tactical Vehicles**

**UNCLASSIFIED**

**P-1 Line Item Nomenclature:**
D03002 - Mine-Resistant Ambush-Protected (MRAP) Mods

**ID Code**
(A=Service Ready, B=Not Service Ready) :

**Program Elements for Code B Items:**

**Other Related Program Elements:**

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**MDAP/MAIS Code(s):**

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<th>FY 2013</th>
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**Total Gross/Weapon System Cost**

| 2,000 | - | 571.179 | 927.400 | 2,200 | - | 321.040 | 323.240 |

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**Total Gross/Weapon System Cost**

| 2.200 | - | - | - | - | - | 1,824.019 |

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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY14 Base funds will support the Program Management office.

The Army Vice Chief of Staff approved the MRAP enduring fleet quantity of 8,585 which included the MRAP All-Terrain Vehicle (MATV), the MaxxPro Dash with Independent Suspension System (ISS) and the MaxxPro Plus Ambulance ISS as the Army's three MRAP enduring variants following the completion of MRAP Study III. This funding will upgrade all 8,585 vehicles with various retrofit kits in order to maximize capability with safety upgrades as the highest priority. The previous upgrade quantity of 1,924 in PB13 is increased to 8,585 because the quantity of 1,924 represented upgrading older model MRAPs with higher cost suspension kits. MRAP Study III is divesting of those older models, and focuses on the newer variants that require lower cost upgrades which allows the program office to retrofit more vehicles at a lower cost.

FY14 OCO procurement dollars in the amount of $321,040 million will upgrade the MRAP enduring variants Mine Resistant Ambush Protected All-Terrain Vehicle (MATV), MaxxPro DASH Independent Suspension System (ISS), and MaxxPro Plus Ambulances ISS. Upgrades/activities will include, but are not limited to: 1) Safety, 2) Suspension, 3) Capability set network communication equipment/integration, 4) Technical manual development, 5) Converting MaxxPro Ambulances to MaxxPro DASH ISS gun trucks, 6) Converting MaxxPro Long Wheel Base vehicles to MaxxPro Plus Ambulances, and 7) Produce/procure materiel solutions to evolving threats in response to urgent warfighter requests. These upgrades will also consolidate variant types, reduce MRAP fleet sustainment costs and facilitate Type Classification and Full Materiel Release for MRAP enduring vehicles. This request complies with the Department's funding guidance for the MRAP OCO funding request to include costs to retrograde and repair vehicles to its original or upgraded capability. MATV upgrades will be conducted at Space and Naval Warfare System Command (SPAWAR) and Ft. Bliss, TX. MaxxPro upgrades and conversions will be conducted at either Livorno or Red River Army Depot.
**Exhibit P-3A, Individual Modification:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 01: Tactical and Support Vehicles / BSA 10: Tactical Vehicles

**P-1 Line Item Nomenclature:**
D03002 - Mine-Resistant Ambush-Protected (MRAP) Mods

**Modification Nomenclature**
(Modification Number - Modification Title):
0-00-00-00 - MRAP Modification / Upgrade Program

**Date:** May 2013

**Models of Systems Affected:** MATV and MaxxPro variants.

**Type Modification:** Unclassified

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**
- | - | - | - | - | - | - | - | - | - | - | - | 0.169 |

**Gross/Weapon System Unit Cost (Units in Thousands)**
- | 2,549.906 | 463.700 | 246.487 | - | 37.652 | - | - | - | - | - | - |

## FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**
FY14 OCO procurement dollars in the amount of $321.040 million will upgrade the MRAP enduring variants MATV, MaxxPro DASH Independent Suspension System (ISS), and MaxxPro Plus Ambulances ISS. Upgrades/activities will include, but are not limited to: 1) Safety, 2) Suspension, 3) Capability set network communication equipment/integration, 4) Technical manual development, 5) Converting MaxxPro Ambulances to MaxxPro DASH ISS gun trucks, 6) Converting MaxxPro Long Wheel Base vehicles to MaxxPro Plus Ambulances, and 7) Produce/procure materiel solutions to evolving threats in response to urgent warfighter requests. MATV upgrades will be conducted at Space and Naval Warfare System Command (SPAWAR) and Ft. Bliss, TX. MaxxPro upgrades will be conducted at Livorno and Red River Army Depot (RRAD) in conjunction with RESET.
### UNCLASSIFIED

**Exhibit P-3A, Individual Modification:** PB Amended 2014 Army  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 01: Tactical and Support Vehicles / BSA 10: Tactical Vehicles

**P-1 Line Item Nomenclature:**  
D03002 - Mine-Resistant Ambush-Protected (MRAP) Mods

**Modification Nomenclature**  
(Modification Number - Modification Title):  
0-00-00-00 - MRAP Modification / Upgrade Program

**Models of Systems Affected:** MATV and MaxxPro variants.

**Type Modification:** Unclassified  
**Related RDT&E PEs:**

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**LI D03002 - Mine-Resistant Ambush-Protected (MRAP) Mods**

**UNCLASSIFIED**

**Page 5 of 5**

**P-1 Line #13**
UNCLASSIFIED

Department of Defense
Fiscal Year (FY) 2014 Amended Budget Estimates

May 2013

Army

Justification Book

Other Procurement, Army

Communications and Electronics Equipment, Budget Activity 2

UNCLASSIFIED
# Table of Contents

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- Line Item Table of Contents (Alphabetically by Line Item Title) ..................................................................................... iii
- Exhibit P-40’s ................................................................................................................................................. 1
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### MDAP/MAIS Code(s):

**P-1 Line Item Nomenclature:**

BU0500 - Installation Info Infrastructure Mod Program

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A: Other Procurement, Army / BA 02: Communications and Electronics

**Equipment / BSA 73: Comm - Base Communications**

**Resource Summary**

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Date:** May 2013

**Description:**

The Installation Information Infrastructure Modernization Program (I3MP) modernizes and upgrades the Telecommunications/Infrastructural Infrastructure on all Army installations across the globe. The installation-level network infrastructure is comprised of the wiring, electronics and security equipment required to provide voice, video, and data communications to traditional business users and Warfighters. I3MP is at the very foundation of the Army's enterprise information strategy to evolve a Net-Centric, Everything over Internet Protocol (EoIP) network environment that meets the Department of Defense mandate to implement Unified Capabilities (UC). I3MP engineers, designs, fields, and tests a standardized, converged, UC ready, secure Installation Campus Area Network (ICAN) infrastructure using State of the Art Commercial-off-the-Shelf (COTS) solutions. In Korea, the program specifically resources all the Information Technology engineering required to ensure Army and Joint Forces can operate efficiently once they relocate south to Camp Humphries. This infrastructure provides tactical and strategic end-users with connectivity from the desktop to the Defense Information Systems Network (DISN)/Global Information Grid (GIG). The network I3MP modernizes ensures soldiers maintain their warfighting systems and their proficiency on the systems by using the installation network as a "Docking Station" while they are at home station instead of relying on costly satellite usage time. I3MP further enables valuable training as it provides the critical high speed and high bandwidth connectivity required for facilities and organizations to conduct Live, Virtual, and Constructive exercises and operations. I3MP derives its requirements through continuous collaboration with DISA, Army CIO/G-6, Army NETCOM, and the Warfighter community. The program supports the Army/DoD strategic information dominance objectives of EoIP environment and UC and is aligned with the evolving Joint Information Environment (JIE) initiative. In addition to building and modernizing the installation network, I3MP fields the Top Level Architecture (security boundary equipment) needed to protect the vital Army ICAN infrastructure and the business conducted on it.

The World Wide Technical Control Improvement Program (WWTCIP) is a continuing program to improve, expand and automate the Army's Technical Control Facilities (TCF). The program provides power (alternating and direct current (AC/DC), uninterruptible power supply (UPS) and backup generator), timing and synchronization equipment, line conditioning equipment, real time alarm monitoring and control, tri-service tactical interface, and appropriate test equipment with associated hardware. The upgrades provide the end user with greater bandwidth for real time response, high quality voice, data, video, and minimizes outages. Many of the present configurations and equipment can no longer support the Soldier's requirements for voice, data, and video in an Internet Protocol (IP) centric environment for Everything Over IP (EoIP). The program is essential to correct these problems and to support Outside the Continental United States (OCONUS) Theater Combatant Commander's programs as well as the Continental United States (CONUS) power projection bases and Defense Satellite Communications Systems. The emerging requirements of new base consolidation in both the Pacific and European Theaters will require robust TCF capability. Provides initial configuration management and implements Information Assurance (IA) controls for TCFs.
The Terrestrial Transmission (TT) program is a component of the Army’s seamless Enterprise Network that provides long-haul communications compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. The objective is an integrated, survivable network that provides voice, data messaging, video and transmission services to the Warfighter. It will also continue the upgrade of power, timing and alarm systems for the European Transmission Systems. The Army Special Access Program Enterprise Portal (ASEP) is the Army’s only Top Secret compartmented wide area network providing a secure communications capability (email, video, teleconferencing, document storage/sharing, voice over internet protocol and instant messaging) for the Warfighter.

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Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Nomenclature:
BU0500 - Installation Info Infrastructure Mod Program

ID Code (A=Service Ready, B=Not Service Ready) :
Program Elements for Code B Items: Other Related Program Elements:

MDAP/MAIS Code(s):

The Terrestrial Transmission (TT) program is a component of the Army’s seamless Enterprise Network that provides long-haul communications compatibility across operational systems supporting the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The goal architecture will be able to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. The objective is an integrated, survivable network that provides voice, data messaging, video and transmission services to the Warfighter. It will also continue the upgrade of power, timing and alarm systems for the European Transmission Systems. The Army Special Access Program Enterprise Portal (ASEP) is the Army's only Top Secret compartmented wide area network providing a secure communications capability (email, video, teleconferencing, document storage/sharing, voice over internet protocol and instant messaging) for the transmission of highly classified Special Access Required (SAR) information between the Army Operations Center (AOC), the Army staff, Major Army Commands, Army Special Access Programs (SAPs) and Army Sensitive Activities (SAs). ASEP was directed by the Army G3 in May 2005 to address immediate operational needs.

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| Item Schedule | Prior Years | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total | Item Nomenclature* | Exhibits | ID CD | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) | Unit Cost ($ K) | Qty (Each) | Total Cost ($ M) |
|---------------|-------------|---------|---------|-------------|------------|-------------|-------------------|----------|------|----------------|-------------|----------------|----------------|----------|----------------|----------------|----------|----------------|----------------|----------|----------------|----------------|----------|----------------|----------------|----------|----------------|
| BU0510 - I3MP - Europe | P5 | - | - | 660.313 | - | - | 152.072 | - | - | 25.000 | - | - | - | 240.286 | - | - | - | 240.286 |
| BU0530 - I3MP - CONUS | P5, P5A | - | - | 946.508 | - | - | 279.685 | - | - | 57.727 | - | - | - | 240.286 | - | - | - | 240.286 |
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics
Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Nomenclature:
BU0500 - Installation Info Infrastructure Mod Program

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Justification:

FY 2014 I3MP Base funding in the amount of $248.477 million modernizes and upgrades the Telecommunications/Information Infrastructure on all Army installations across the globe.

FY 2014 I3MP- CONUS Base funding in the amount of $240.286 million modernizes the telecommunications infrastructure of four (4) Army installations to provide DoD mandated Unified Capabilities (UC). This means converging separate voice, video, and data networks and electronics which exist on Army installations onto a single data (internet protocol) network. FY 2014 Korea Transformation (KT) in the amount of $8.681 million is realigned into BU0530 from Automated Data Processing Equipment (BD3000) for more effective, efficient program management, as this effort provides like services to those performed under I3MP. This realignment postures the Program Manager Installation Information Infrastructure Command and Control to provide integrated and focused control of both the KT and I3MP programs and facilitates task sharing while ensuring more efficient resource obligation.

FY 2014 I3MP- Europe (BU0510) has no FY 2014 Base procurement request, as funding is realigned under BU0530 for more effective, efficient program management by standardizing project implementation across all three theaters.

FY 2014 (BU0510) Overseas Contingency Operations (OCO) funding in the amount of $25.000 million supports the procurement, installation, and/or enhancement of Command, Control, Communications, and Computers (C4) communications infrastructure at key enduring locations. Camp Buehring, KU upgrades support the distribution of DISN services (SIPRNet, NIPRNet, DSN, DRSN, VTC, etc.) and planning, procurement, and installation of an optical DISN Service Delivery Node (SDN) required to support DISA terrestrial leases to this location replacing unsupported ATM points of presence; and ensures Army compliance with DOD CIO mandate to convert to Internet Protocol standards. Directly support ongoing contingency operations in Afghanistan, Kuwait, Qatar, and Bahrain. Enables the expansion of the C4 infrastructure at Mazar-E-Sharif-Marmal Northern Distribution Node for logistical support during retrograde of US Forces from OEF and inflow of equipment to support the follow on Advise and Assist missions.

FY 2014 World Wide Technical Control Improvement Program (WWTCIP) (BU3610) FY 2014 Base procurement dollars in the amount of $8.191 million procures engineering design support at three (3) Army TCF sites, resulting in acquisition packages that will facilitate FY15 contract awards for the full technical upgrades of the respective TCFs including engineering support and installation of timing and synchronization systems, power systems in integration of state of the art satellite and cryptology equipment. WWTCIP is realigned under BU0500 for more effective, efficient program management. This realignment postures the Program Executive Office Enterprise Information Systems (PEO EIS) to provide integrated and focused oversight of both the WWTCIP and I3MP programs and facilitate task sharing while ensuring more efficient resource obligation.

FY 2014 Terrestrial Transmission (TT) (BU2000) has no FY 2014 Base procurement request. TT is realigned under BU0500 for more effective, efficient program management. This realignment postures the Program Executive Office Enterprise Information Systems (PEO EIS) to provide integrated and focused oversight of both the TT and I3MP programs and facilitate task sharing while ensuring more efficient resource obligation.
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Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

P-1 Line Item Nomenclature:
BU0500 - Installation Info Infrastructure Mod Program

Item Nomenclature (Item Number - Item Name, DODIC):
BU0510 - I3MP - Europe

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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LI BU0500 - Installation Info Infrastructure Mod Program

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Page 4 of 11

P-1 Line #60
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

**P-1 Line Item Nomenclature:**
BU0500 - Installation Info Infrastructure Mod Program

**Item Nomenclature (Item Number - Item Name, DODIC):**
BU0510 - I3MP - Europe

**Date:** May 2013

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LI BU0500 - Installation Info Infrastructure Mod Program

UNCLASSIFIED

Army

Page 5 of 11

P-1 Line #60
## Resource Summary

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<th>Procurement Quantity (Units in Each)</th>
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## Cost Elements

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**Exhibit P-5, Cost Analysis:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

**P-1 Line Item Nomenclature:**
BU0500 - Installation Info Infrastructure Mod Program

**Item Nomenclature (Item Number - Item Name, DODIC):**
BU0530 - I3MP - CONUS

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**UNCLASSIFIED**

**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army  
**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

**P-1 Line Item Nomenclature:**  
BU0500 - Installation Info Infrastructure Mod Program

**Item Nomenclature:**  
BU0530 - I3MP - CONUS

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**Remarks:**  
I3MP is a complex program that orchestrates the implementation of multiple disciplines (connectivity (voice, data, Outside Cable Plant (OCP) network)), capacity, storage and information assurance) across multiple locations each with their own developmental cycle, frequently resulting in the overlapping development and implementation of customized communications solutions (to meet unique and diverse mission conditions) at each Army installation. Unit costs and accompanying number of implementations (installations) will, therefore, vary from year to year, due to the complexity of the requirement, size of the installation, state of the information technology being replaced/modernized, the type of technology required, unique configuration and level of effort required to satisfy all requirements.
### Resource Summary

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P-5 Remarks:

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### Exhibit P-5A, Budget Procurement History and Planning:

#### PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**

- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 73: Comm - Base Communications

**P-1 Line Item Nomenclature:**

- BU0500 - Installation Info Infrastructure Mod Program

**Item Nomenclature:**

- BU3610 - WW Tech Con Imp Prog (WWTCIP)

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**Remarks:**

Projected Award Date and First Delivery Date as indicated.
Distributed Common Ground System - Army (DCGS-A) is the Intelligence, Surveillance and Reconnaissance (ISR) System of Systems (SoS) for Joint, Interagency, Allied, Coalition, and National data analysis, sharing and collaboration. The core functions of DCGS-A are: the vertical and horizontal synchronization of ISR Processing, Exploitation and Dissemination (PED); operating in a networked environment at multiple security levels; the control of select Army and Joint sensor systems; the fusion of all acquired data and information; distribution of relevant red (threat), gray (non-aligned), and environmental (weather and terrain) information; and providing warfighter's early warning and targeting capability. DCGS-A provides a single integrated ISR ground processing system composed of common components that are interoperable with sensors and other information sources and impacts all warfighting functions. DCGS-A is a key component of the greater Defense Information & Intelligence Enterprise (DI2E). DCGS-A is fielded in fixed and mobile configurations, emphasizing the use of reach and split based operations by improving accessibility of data in order to reduce forward deployed footprint. DCGS-A continues to support worldwide contingency operations (Afghanistan/Horn of Africa/Philippines) through ISR Modernization to address operational requirements and equipment fielding in accordance with (IAW) the Army Force Generation (ARFORGEN) model.

The Army Acquisition Executive (AAE) designated the Program Executive Officer (PEO) for Intelligence, Electronic Warfare, and Sensors (IEW&S) as the Command Post Computing Environment (CPCE) Lead. PEO IEW&S is using DCGS-A to define the CPCE architecture to fit within the Common Operating Environment (COE) as described within the Assistant Secretary of the Army (ASA) for Acquisition, Logistics, and Technology (ALT) COE Implementation Plan. This is in accordance with (IAW) the Army priority to align all Army networks, procurements, and enhancements under one COE and one vision leveraging intelligence community investments.

DCGS-A hardware and software is based on a combination of Government Off The Shelf (GOTS), Commercial Off The Shelf (COTS), and Non-Developmental Items (NDI) that are integrated into scalable configurations, tailored to Warfighting functions. These product line components include the software baseline, server suite [Intelligence Fusion Server (IFS)] and individual analyst multi-function workstations, such as Portable and Fixed-Multi-Function Workstations (P-MFWS) and Geospatial Intelligence (GEOINT) Workstation. These components are also used to upgrade existing fielded Intel Programs of Record to enable the establishment of the Army COE while simultaneously assuring system compatibility and interoperability within the DCGS enterprise.

DCGS-A is a designated Major Automation Information System (MAIS), and is deployed on multiple hardware platforms and security levels across the Army. DCGS-A achieved a successful Milestone C in 2012, and following the successful operational assessment and Full Deployment Decision (FDD) in 1Q13, DCGS-A Increment 1 Release 1 capabilities will be deployed across the Force in accordance with...
with (IAW) ARFORGEN. New capabilities will be fielded incrementally through software releases integrated onto the fielded product line hardware configurations. These range from portable laptops to large commodity server-based processing centers operating in a Cloud Architecture. DCGS-A deployed the first Tactical Cloud Computing Node in the DoD in 1Q11. Core Cloud nodes will be fielded strategically across the globe, while tactical Cloud Edge Nodes such as the DCGS-A Intelligence Processing Center (IPC) (V)1 and (V)2 will form the basis for delivery of Cloud computing environment to the combat formation.

Within the Brigade Combat Teams (BCTs), DCGS-A provides basic mobile ISR capability as well as software applications that can be embedded on future C3I and other systems. At the Corps, Division and Echelons Above Corps (EAC), DCGS-software will be hosted on fixed, mobile and portable configurations. DCGS-A consolidates and modernizes the processing, exploitation, and dissemination (PED) capabilities formerly found in the following programs, allowing for their continuing disposition out of the force structure: All Source Analysis System (ASAS) Family of Systems (FoS), Tactical Exploitation System (TES) FoS, Integrated Meteorological System (IMETS) FoS, Digital Topographic Support System (DTSS) FoS, Counterintelligence and Interrogation Operations (CI&I Ops) workstation, Guardrail Common Sensor Intelligence Processing Facility/Guardrail Ground Baseline, Common Ground Station, Prophet Control, and Enhanced Trackwolf processing capabilities. DCGS-A will continue to develop software packages to be embedded into battle command and other select systems providing future enhanced ISR/analytic capabilities.

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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.
Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army  
Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 02: Communications and Electronics  
Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Nomenclature:  
BZ7316 - DCGS-A (MIP)

ID Code (A=Service Ready, B=Not Service Ready):  
Program Elements for Code B Items:  
Other Related Program Elements: 0305208A

MDAP/MAIS Code(s):

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:
FY14 Base funding in the amount of $267.214 million will modernize and procure components for the DCGS-A fixed Sites, Data Centers, mobile variants and DCGS-A enabled Program of Record (POR) systems setting the conditions for the Army's ISR component of the CPCE. DCGS-A hardware and software will be integrated into select ISR Current Force POR systems, generating a cost savings, to network enable and to provide enhanced ISR Processing, Exploitation, and Dissemination (PED) capabilities IAW the Army's Equipping Strategy. Funding supports the ARFORGEN model by equipping and training next deployers with the current DCGS-A software release. Funding also procure new Commercial off the Shelf (COTS) software licenses to enhance performance of fielded systems, as well as supports integration of Intelligence Community investments. In FY14, DCGS-A must update a large number of Enterprise License Agreements for commercial database and Geospatial capabilities. DCGS-A supports the Army's Geospatial Transformation providing an integrated visualization capability for intelligence, terrain, and weather effects in a net centric environment. Additionally, DCGS-A will upgrade the DCGS-A IPC (V)1 and IPC (V)2, enhancing capability by leveraging the maturity of Cloud for Biometrics, Full Motion Video (FMV), and other new classes of sensors and analytics ensuring Army interoperability, and setting the conditions for the Army's Command Post Computing Environment.

FY14 OCO funding in the amount of $7.200 million provides replacement or repair to updated configuration and capabilities of DCGS-A systems returning form OEF and to return to units as organic Modified Table of Organization and Equipment (MTOE). This will procure 23 IFS, 335 P-MFWS plus ancillary equipment.

IAW Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

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Initial Spares ($ in Millions)

Gross/Weapon System Unit Cost (Units in Thousands)

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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#### Flyaway Cost

##### Recurring Cost

- **Tactical ISR Grd Station (TGS/DE CGS) HW**
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  - 2,522,000
  - 10
  - 25,220
  - 2,522,000
  - 12
  - 30,264
- **DE ACE**
  - 420,000
  - 4
  - 1,680
- **ISR Process Ctr - V1 (IPC V1/DE ACE) HW**
  - 769,000
  - 9
  - 6,921
  - 900,000
  - 3
  - 2,700
- **Oper ISR Grnd Station (OGS/SIPC) HW**
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  - 2
  - 24,128
  - 12,064,000
  - 1
  - 12,064
- **DE ACT-E**
  - 806,000
  - 7
  - 5,642
- **ISR Process Ctr V2 (IPC V2/DE ACT-E) HW**
  - 1,638,000
  - 20
  - 32,720
  - 1,720,000
  - 15
  - 25,800
- **GEONET WS (GWS/DE DTSS-D) HW**
  - 234,000
  - 94
  - 21,996
  - 142,000
  - 94
  - 13,348
- **Intel Fusion Server (IFS) HW**
  - 184,000
  - 75
  - 13,800
  - 175,000
  - 200
  - 35,000
  - 155,000
  - 194
  - 30,070
- **Portable (P) Multi Function WorkSta. HW**
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  - 898
  - 26,940
  - 31,000
  - 1,602
  - 49,662
  - 3,000
  - 2,303
  - 6,909
  - 3,000
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**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Nomenclature:** BZ7316 - DCGS-A (MIP)

**Item Nomenclature (Item Number - Item Name, DODIC):** BZ7316 - DCGS-A (MIP)

**Date:** May 2013
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Nomenclature:** BZ7316 - DCGS-A (MIP)

**Item Nomenclature (Item Number - Item Name, DODIC):** BZ7316 - DCGS-A (MIP)

**Date:** May 2013

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**Exhibit P-5A, Budget Procurement History and Planning:** PB Amended 2014 Army  
**Date:** May 2013

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Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Nomenclature: BZ7316 - DCGS-A (MIP)

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<td>7,950.000</td>
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Remarks:
Based on the approved Army Cost Position in preparation for the Full Deployment Decision, the program office has updated the P-form to reflect software, system integration, engineering change proposals, and engineering support costs separately from the system unit costs.

The GEOINT Workstation, Intel Fusion Server, Portable & Fixed Multifunction Workstations, and Cross Domain Solution hardware are comprised solely of COTS equipment.

UNCLASSIFIED
### UNCLASSIFIED

#### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Nomenclature:** BZ7316 - DCGS-A (MIP)

**Item Nomenclature:** BZ7316 - DCGS-A (MIP)

#### Cost Elements (Units in Each)

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#### Fiscal Year 2012

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### Fiscal Year 2013

|     |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

#### Calendar Year 2012

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#### Calendar Year 2013

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#### Tactical ISR Grd Station (TGS/DE CGS) HW

- **2012**: ARMY 10
- **2013**: ARMY 12

#### ISR Process Ctr - V1 (IPC V1/DE ACE) HW

- **2013**: ARMY(7) 9
- **2014**: ARMY(8) 3

#### Oper ISR Grmd Station (OGS/SpIC) HW

- **2013**: ARMY(8) 2
- **2014**: ARMY(9) 1

#### DE ACT-E

- **2012**: ARMY 7

#### ISR Process Ctr V2 (IPC V2/DE ACT-E) HW

- **2013**: ARMY(8) 20
- **2014**: ARMY(9) 15

#### GEOINT WS (GWS/DE DTSS-D) HW

- **2013**: ARMY(8) 94
- **2014**: ARMY(9) 94

#### Intel Fusion Server (IFS) HW

- **2012**: ARMY(8) 75
- **2013**: ARMY(9) 200
- **2014**: ARMY(9) 194

#### Portable (P) Multi Function WorkSta. HW

- **2012**: ARMY(8) 898
- **2013**: ARMY(8) 1,602
- **2014**: ARMY(9) 3,203

**Army**

**UNCLASSIFIED**

**Page 10 of 15**

**P-1 Line #67**

**LI BZ7316 - DCGS-A (MIP)**
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

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**Cross Domain Systems (CDS) HW**

**DCGS-A Global Unified Data Envir (Nodes)**

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Nomenclature:**
BZ7316 - DCGS-A (MIP)

**Item Nomenclature:**
BZ7316 - DCGS-A (MIP)

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**Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army**

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<td>10</td>
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<td>11</td>
<td>2014</td>
<td>ARMY</td>
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<tr>
<td>DCGS-A Global Unified Data Envir (Nodes)</td>
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**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

**P-1 Line Item Nomenclature:**
BZ7316 - DCGS-A (MIP)

**Item Nomenclature:**
BZ7316 - DCGS-A (MIP)
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A: Other Procurement, Army
- BA 02: Communications and Electronics Equipment
- BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

### P-1 Line Item Nomenclature:
- Item Nomenclature: BZ7316 - DCGS-A (MIP)

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**Notes:**
- **A** in the Delivery Schedule indicated the Contract Award Date.
- Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

### Service/Agency Suffixes:
- (I) BASE
- (II) BASE
- (III) BASE
- (IV) BASE

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**LI BZ7316 - DCGS-A (MIP) Army**
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Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

P-1 Line Item Nomenclature: BK5275 - CI HUMINT Auto Repting and Coll(CHARCS)

ID Code (A=Service Ready, B=Not Service Ready) : P-1 Line #71

Description:
The Counterintelligence (CI) and Human Intelligence (HUMINT) Automated Reporting and Collection System (CHARCS) is the Army's CI and HUMINT tactical collection and reporting system. CHARCS provides automation support for information collection, reporting, investigations, source & interrogation operations and document exploitation. The CHARCS automation architecture extends from the individual HUMINT team soldier or CI agent to the Corps Analysis and Control Element (ACE). CHARCS reports digital data such as maps, overlays, images, video, biometrics, scanned documents and audio files. These media are transmitted through secure networks and interfaces with the Distributed Common Ground Systems-Army (DCGS-A) for detailed analysis and creation of finished intelligence products. Collection and reporting teams at Military Intelligence (MI) battalions and their operational managers are equipped with one of two CHARCS systems. The first is the AN/PYQ-8 Individual Tactical Reporting Tool (ITRT) which provides collection and processing devices for individual HUMINT team member or CI agents. The second is the AN/PYQ-3 CI/HUMINT Automated Tool Set (CHARS) which provides the team leader (who normally directs 3-5 team members) tools to process and manage team-collected information and a robust set of devices such as printers, scanners, cameras and audio recorders to assist the collection mission. The CHATS is also used by Operational Management Team (OMT) (who normally directs 5-10 collection and reporting teams). Each CHATS has an associated Mission Support Peripheral Sets and Kits (MS-PSK) or Collection Peripheral Sets and Kits (C-PSK).

The C-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions as an addition to the CHATS. C-PSK capabilities are commercial-off-the-shelf (COTS) technologies and include video and camera equipment, global positioning system (GPS), voice recording device and infrared strobe lights. The MS-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions as an addition to the AN/PYQ-3 (CHARS). MS-PSK capabilities are COTS technologies and include night vision photography & video, binocular, captured materiel tracking, Document & Media Exploitation (DOMEX), Digital Media Forensics software, Document Exploitation (DOCEX) software and will interface with a handheld biometric capability for identification.

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

The Counterintelligence (CI) and Human Intelligence (HUMINT) Automated Reporting and Collection System (CHARCS) is the Army's CI and HUMINT tactical collection and reporting system. CHARCS provides automation support for information collection, reporting, investigations, source & interrogation operations and document exploitation. The CHARCS automation architecture extends from the individual HUMINT team soldier or CI agent to the Corps Analysis and Control Element (ACE). CHARCS reports digital data such as maps, overlays, images, video, biometrics, scanned documents and audio files. These media are transmitted through secure networks and interfaces with the Distributed Common Ground Systems-Army (DCGS-A) for detailed analysis and creation of finished intelligence products. Collection and reporting teams at Military Intelligence (MI) battalions and their operational managers are equipped with one of two CHARCS systems. The first is the AN/PYQ-8 Individual Tactical Reporting Tool (ITRT) which provides collection and processing devices for individual HUMINT team member or CI agents. The second is the AN/PYQ-3 CI/HUMINT Automated Tool Set (CHARS) which provides the team leader (who normally directs 3-5 team members) tools to process and manage team-collected information and a robust set of devices such as printers, scanners, cameras and audio recorders to assist the collection mission. The CHATS is also used by Operational Management Team (OMT) (who normally directs 5-10 collection and reporting teams). Each CHATS has an associated Mission Support Peripheral Sets and Kits (MS-PSK) or Collection Peripheral Sets and Kits (C-PSK).

The C-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions as an addition to the CHATS. C-PSK capabilities are commercial-off-the-shelf (COTS) technologies and include video and camera equipment, global positioning system (GPS), voice recording device and infrared strobe lights. The MS-PSK provides specialized collection component capabilities to support CI/HUMINT collection missions as an addition to the AN/PYQ-3 (CHARS). MS-PSK capabilities are COTS technologies and include night vision photography & video, binocular, captured materiel tracking, Document & Media Exploitation (DOMEX), Digital Media Forensics software, Document Exploitation (DOCEX) software and will interface with a handheld biometric capability for identification.
## Justification:

FY14 Base funding in the amount of $6.169 million procures mission equipments, fielding, training, logistic support, technical insertion, engineering, software upgrades and program management for ARFORGEN units, resulting in increased CHARCS capabilities for operators and next deployers.

FY14 OCO funding in the amount of $5.980 million procures Secure Electronic Enrollment (SEEK II) kits. Kits in theater require refresh of hardware and upgrade to software for new user requirements. As Quick Reaction Capability (QRC), these systems had a three-year warranty that began in September 2011. Systems require refresh beginning in FY14. Failure to upgrade hardware/software puts base security at risk and could prolong capture of high value targets. Expiration of warranties will preclude further maintenance/repair. Funding also supports providing operationally-required modifications to equipment used in theater or in direct support of combat operations. Funds provide two Field Support Engineers (FSEs) in OEF to support training, fielding, and sustainment of CHARCS in theater for software/hardware upgrades to CI/HUMINT analysts, Multi-Function, and Document Exploitation (DOMEX) teams while deployed and sustain current capabilities for CI/HUMINT equipment.

<table>
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<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>ID CD</th>
<th>Unit Cost ($) (K)</th>
<th>Qty (Each)</th>
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<th>Unit Cost ($) (K)</th>
<th>Qty (Each)</th>
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<th>Unit Cost ($) (K)</th>
<th>Qty (Each)</th>
<th>Total Cost ($) (M)</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>Total Cost ($) (M)</th>
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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A, Item Number and Item Name for the P10.
### Resource Summary

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<th>FY 2014 Total</th>
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<td>5.980</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

#### Initial Spares ($ in Millions)
- - - - - -

#### Gross/Weapon System Unit Cost (Units in Thousands)
- - - - - -

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### Cost Elements

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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)

#### P-1 Line Item Nomenclature:
BK5275 - CI HUMINT Auto Reptrtng and Coll(CHARCS)

#### Item Nomenclature (Item Number - Item Name, DODIC):
BK5275 - CI HUMINT Auto Reptrtng and Coll(CHARCS)

#### P-5 Remarks:
- **Secondary Distribution**

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**Date:** May 2013
Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army  

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 80: Elect Equip - Tact Int Rel Act (TIARA)  

**P-1 Line Item Nomenclature:**  
BK5275 - CI HUMINT Auto Reprtng and Coll(CHARCS)  

**Item Nomenclature:**  
BK5275 - CI HUMINT Auto Reprtng and Coll(CHARCS)  

**Date:** May 2013  

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**Remarks:**  
Equipment is comprised solely of COTS equipment with COTS/GOTS software.
### Description:
The AN/TPQ-50 (formerly known as AN/TPQ-48(V)3) Lightweight Counter Mortar Radar (LCMR) is a digitally connected, day/night mortar, cannon, and rocket locating system. It is used to detect, locate, track, and report enemy indirect firing systems and provides the ability to observe friendly fire units. The AN/TPQ-50 is capable of being deployed in two configurations, standalone or vehicle mounted. It can be set up and operational in 20 minutes and disassembled in 10 minutes. The AN/TPQ-50 will be deployed as part of the System of Systems for the Counter-Rocket, Artillery, and Mortar (C-RAM) construct or Rocket Artillery Mortar (RAM) Warn. It provides data to the Forward Area Air Defense Command and Control (FAADC2) node for the sense and warn force protection capability at fixed and semi-fixed sites. It provides 360 degrees of azimuth coverage and covers a range of 500 meters to 10 kilometers. AN/TPQ-50 Quick Reaction Capability systems are currently fielded and deployed to Operation Enduring Freedom (OEF). Army Acquisition Objective (AAO): 400

### Resource Summary

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<td>87.910</td>
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<td>40.735</td>
<td>57.800</td>
<td>98.535</td>
<td>45.229</td>
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<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
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(Continuing)

### Secondary Distribution

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## Justification:

FY 2014 Base procurement dollars in the amount of $40.735 million supports the procurement of eighteen (18) AN/TPQ-50 Full Rate Production (FRP) systems. Eighteen systems will support 5 Brigade Combat Teams (BCT's).

FY2014 Overseas Contingency Operations (OCO) procurement dollars in the amount of $57.800 million supports the procurement of forty nine (49) AN/TPQ-50 systems for OEF and other overseas contingency operations, replacing limited capability AN/TPQ-48 and AN/TPQ-49 systems returning from theater. Forty nine systems will support 12 BCT's.

The FY 2014 OCO quantity reflected on the P-1 is a technical error. The FY14 OCO quantity of forty nine (49) justified in this set of forms is correct.
**UNCLASSIFIED**

**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

**P-1 Line Item Nomenclature:**

B05201 - Lightweight Counter Mortar Radar

**Item Nomenclature (Item Number - Item Name, DODIC):**

B05201 - Lightweight Counter Mortar Radar

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(Continued)

*(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)*

**Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Thousands) | - | 2,313.421 | 1,496.119 | 2,263.056 | 1,179.592 | 1,470.672 | - | - | - | - | Continuing |

## FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

### This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
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<td>Unit Cost ($K)</td>
<td>Quantity (Each)</td>
<td>Total Cost ($M)</td>
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**Flyaway Cost**

| Recurring Cost | 653.000 | 165 | 107.688 | 1,003.000 | 38 | 38.114 | 241.248 | 87.910 | 100.240 | 40.735 | 57.800 | 98.535 |
| Hardware (LCMR V3) | - | - | 9.500 | - | - | 7.372 | - | - | - | - | - |
| Engineering Change Orders | - | - | 1.853 | - | - | - | - | 1.017 | - | - | 0.464 |
| Acceptance and Live Fire Testing | - | - | 27.236 | - | - | 4.558 | - | - | 4.479 | - | - | 1.442 |
| Integrated Logistics Support | - | - | 13.604 | - | - | 1.354 | - | - | 1.662 | - | - | 1.544 |
| Interim Contractor Support (ICS) | - | - | 9.548 | - | - | 3.100 | - | - | 2.691 | - | - | 3.141 |
| System Engineering | - | - | 7.540 | - | - | 3.758 | - | - | 2.984 | - | - | 2.360 |
| Program Management Support | - | - | 15.327 | - | - | 8.176 | - | - | 4.463 | - | - | 4.534 |
| Total Recurring Cost | 241.248 | 87.910 | 100.240 | 40.735 | 57.800 | 98.535 |
| Total Flyaway Cost | 241.248 | 87.910 | 100.240 | 40.735 | 57.800 | 98.535 |
**Exhibit P-5, Cost Analysis: PB Amended 2014 Army**

**P-1 Line Item Nomenclature:**
B05201 - Lightweight Counter Mortar Radar

**Item Nomenclature (Item Number - Item Name, DODIC):**
B05201 - Lightweight Counter Mortar Radar

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LI B05201 - Lightweight Counter Mortar Radar
Army

UNCLASSIFIED
Page 5 of 10  P-1 Line #74
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## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

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### Item Nomenclature:
- B05201 - Lightweight Counter Mortar Radar

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LI B05201 - Lightweight Counter Mortar Radar

UNCLASSIFIED

Date: May 2013

Army
## Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

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| Item Nomenclature: | B05201 - Lightweight Counter Mortar Radar |

### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

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"A" in the Delivery Schedule indicated the Contract Award Date. Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
## Description:

Persistent Threat Detection System (PTDS) and Persistent Ground Surveillance System (PGSS) comprise the tethered component of Persistent Surveillance Systems (PSS-T). PTDS is currently under Army Program Executive Office for Intelligence, Electronic Warfare and Sensors (PEO IEW&S), and PGSS is currently under Naval Air Systems Command (NAVAIR). PSS-T has been assigned to Army PEO IEW&S. PTDS and PGSS are critical Quick Reaction Capability (QRC) programs consisting of tethered aerostats equipped with high resolution Electro-Optical/Infrared (EO/IR) camera systems and wide-area assessment sensors. Video collected by PSS-T is distributed to the Forward Operating Base and division commander information center as well as to quick reaction forces via personal digital assistant (PDA) displays, providing tactical commanders enhanced battlefield situational awareness.

PTDS - The baseline configuration includes the US Army Research Lab's Unattended Transient Acoustic Measurement and Signature INtelligence (MASINT) System (UTAMS) which operationally cues the PTDS MX-20 to slew onto a target. The UTAMS is an acoustic sensor design consisting of sensor stations linked via radio to a base station. Each sensor station includes microphone arrays, signal processor, and display. The baseline PTDS also includes the JSIT Mini-Tactical Common Data Link transmitter that transmits MX-20 video stream to ground forces equipped with One System Remote Video Terminal. Expansible-Unattended Ground Sensor (E-UGS) enhances the PTDS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response. PTDS continues to meet other urgent theater needs through system upgrades: adding High Antennas for Radio Communications (HARC) radio, PRG-117G, Tactical Targeting Network Technology (TTNT), Highband Networking Radio (HNR) as part of the aerial layer network extension architecture; transmitting weather data directly to Air Force Weather Agency (AFWA) via weather relay kits; added dual sensor capability; additional Vista, Kestrel, and WISP sensors, PSS Slew to Cue, Precision Fires, and Survivability enhancements. Additionally, Expansible-Unattended Ground Sensor (E-UGS) enhances the PGSS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response.

The PGSS has been a highly successful example of quickly delivering urgently needed capabilities to the Warfighter at remote FOBs. PGSS continues to meet other urgent theater needs through system upgrades: adding High Antennas for Radio Communications (HARC) radio, PRG-117G, Quint Networking Technology (QNT), and micro-enhanced Position Location Reporting System (EPLRS) as part of the aerial layer network extension architecture; transmitting weather data directly to Air Force Weather Agency (AFWA) via PGSS Weather Web, added dual sensor capability; additional Vista, Kestrel, and WISP sensors, PSS Slew to Cue, Precision Fires, and Survivability enhancements. Additionally, Expansible-Unattended Ground Sensor (E-UGS) enhances the PGSS ability to detect enemy vehicle and footstep traffic and provides improved situational awareness and facilitate tactical response.

### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
| Flyaway Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

### Appropriation / Budget Activity / Budget Sub Activity:

- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)
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Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

P-1 Line Item Nomenclature:
BL5287 - Family Of Persistent Surveillance Capabilities

ID Code (A=Service Ready, B=Not Service Ready):

Program Elements for Code B Items:

Other Related Program Elements:

MDAP/MAIS Code(s):

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Item Schedule

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Justification:

FY2014 OCO Procurement funding in the amount of $8.9 million for PGSS provides for the procurement of replacement parts based on projected equipment service life and combat losses. This request supports lifecycle replenishment of three (3) aerostat envelopes, three (3) wide area sensors, and five (5) tether-up kits.

FY2014 OCO Procurement funding in the amount of $6.4 million for PTDS provides for the procurement of replacement parts based on projected equipment service life and combat losses. This request supports replenishment of eight (8) aerostat envelopes.

In accordance with Section 1814 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
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Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications
and Electronics Equipment / BSA 83: Elect Equip - Electronic
Warfare (EW)

P-1 Line Item Nomenclature:
BL5287 - Family Of Persistent Surveillance Capabilities

Item Nomenclature (Item Number - Item Name, DODIC):
BL5287 - Family Of Persistent Surveillance Capabilities

Resource Summary | Prior Years | FY 2012 | FY 2013 | FY 2014 Base | FY 2014 OCO | FY 2014 Total

| Procurement Quantity (Units in Each) | - | - | - | - | - |
| Gross/Weapon System Cost ($ in Millions) | - | 53.000 | 52.000 | - | 15.300 | 15.300 |
| Less PY Advance Procurement ($ in Millions) | - | - | - | - | - |
| Net Procurement (P1) ($ in Millions) | - | 53.000 | 52.000 | - | 15.300 | 15.300 |
| Plus CY Advance Procurement ($ in Millions) | - | - | - | - | - |
| Total Obligation Authority ($ in Millions) | - | 53.000 | 52.000 | - | 15.300 | 15.300 |

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

Initial Spares ($ in Millions) | - | - | - | - | - |
Gross/Weapon System Unit Cost (Units in Thousands) | - | - | - | - | - |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
## Exhibit P-5, Cost Analysis: PB Amended 2014 Army

### Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

### P-1 Line Item Nomenclature:
BL5287 - Family Of Persistent Surveillance Capabilities

### Item Nomenclature (Item Number - Item Name, DODIC):
BL5287 - Family Of Persistent Surveillance Capabilities

### Date: May 2013

#### Cost Analysis:

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## Exhibit P-5A, Budget Procurement History and Planning

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

**P-1 Line Item Nomenclature:**
BL5287 - Family Of Persistent Surveillance Capabilities

**Item Nomenclature:**
BL5287 - Family Of Persistent Surveillance Capabilities

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#### Calendar Year 2013

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| C | O | E | A | E | A | P | A | U | U | U | L | P | T | C |

#### Model Description

- **EO/IR Sensor (MX-20):**
  - Fiscal Year 2013: ARMY 1 - 1
  - Fiscal Year 2014: ARMY 2 - 2

- **Aerostat Envelope:**
  - Fiscal Year 2013: ARMY 8 - 8
  - Fiscal Year 2014: ARMY 8 - 8

- **ISR Turret (MX-15):**
  - Fiscal Year 2013: ARMY 3 - 3
  - Fiscal Year 2014: ARMY 8 - 8
  - Fiscal Year 2015: ARMY 2 - 2

- **Tether-up replacement:**
  - Fiscal Year 2013: ARMY 5 - 5
  - Fiscal Year 2014: ARMY 5 - 5
  - Fiscal Year 2015: ARMY 5 - 5
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

**P-1 Line Item Nomenclature:**
BL5287 - Family Of Persistent Surveillance Capabilities

**Item Nomenclature:**
BL5287 - Family Of Persistent Surveillance Capabilities

#### Cost Elements (Units in Each)

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LI BL5287 - Family Of Persistent Surveillance Capabilities

**UNCLASSIFIED**

**Page 8 of 9**

P-1 Line #78
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date**: May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

**P-1 Line Item Nomenclature:**
BL5287 - Family Of Persistent Surveillance Capabilities

**Item Nomenclature:**
BL5287 - Family Of Persistent Surveillance Capabilities

<table>
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<tr>
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<th>MFR Name - Location</th>
<th>Production Rates (Each / Month)</th>
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<th>Reorder</th>
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<td>TCOM - Elizabeth City, NC</td>
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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 83: Elect Equip - Electronic Warfare (EW)

**P-1 Line Item Nomenclature:**
BL5283 - Counterintelligence/Security Countermeasures

**ID Code (A=Service Ready, B=Not Service Ready):**

**Program Elements for Code B Items:**

**Other Related Program Elements:**

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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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</table>

(Initial Spares ($ in Millions))

Flyaway Unit Cost (Units in Thousands)

Gross/Weapon System Unit Cost (Units in Thousands)

FY 2014 Program is from the FY 2013 President's Budget, submitted February 2012

**FY14 OCO funding in the amount of $4.221 million. INFORMATION IDENTIFIED IN VOL II OF THE MILITARY INTELLIGENCE PROGRAM CONGRESSIONALJUSTIFICATION BOOK.**

In accordance with Section 1815 of the FY2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the Active and Reserve Components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
The Improved Position and Azimuth Determining System (IPADS) provided common inertial survey control for all U.S. Army and Marine Corps Field Artillery, Mortar, Artillery Meteorological and Radar systems. The IPADS, enhanced with the Global Positioning System (GPS) (IPADS-G), will address deficiencies of the fire support community by providing the ability to maintain the current accuracy of the IPADS without stopping for zero velocity updates, therefore increasing artillery timeliness, availability of fires, lethality, survivability, and force protection on extended convoys or artillery missions. The IPADS-G may be aided by an internal GPS receiver; however it must also be capable of operating in an inertial fashion independently of GPS aiding.
**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics
- Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:**
- AD3200 - Artillery Accuracy Equip

**ID Code (A=Service Ready, B=Not Service Ready):** A

**Program Elements for Code B Items:**

**Other Related Program Elements:**

### MDAP/MAIS Code(s):

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<tr>
<th>Item Nomenclature*</th>
<th>Exhibits</th>
<th>MDAP/MAIS Code(s)</th>
<th>ID CD</th>
<th>Unit Cost (K)</th>
<th>Qty</th>
<th>Total Cost (M)</th>
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<tr>
<td>POSITION AZIMUTH DETERMINING SYS (PADS)</td>
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<td>A</td>
<td>-</td>
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<td>3.895</td>
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<th>FY 2014 Base</th>
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<td>Total Cost (M)</td>
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**Total Gross/Weapon System Cost:** 237.219

**Justification:**

FY 2014 Base Appropriations in the amount of $0.800 million supports the fielding of the IPADS-G model. The Army previously contracted for an engineering change proposal to provide a GPS upgrade to its inventory of 278 IPADS. These essential fielding costs provide for engineering support, shipping to and from the contractor, publications, software updates and new equipment training.

FY 2014 OCO Appropriations in the amount of $1.834 million supports the acquisition of a replacement Control and Display Unit to address obsolescence. More than 75% of the fielded unit's IPADS have the Control and Display Units that are completely obsolete and no longer supported by the contractor. Replacement Control and Display Units will support deployed and deploying units to overseas contingency operations.

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*Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.*

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Nomenclature: KA3100 - Mod Of In-Svc Equip (LLDR)

ID Code (A=Service Ready, B=Not Service Ready): 

MDAP/MAIS Code(s): 

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<tr>
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<td>-</td>
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<td>167</td>
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<td>259</td>
<td>303</td>
<td>302</td>
<td>330</td>
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<td></td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>-</td>
<td>-</td>
<td>22.403</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>49.000</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td></td>
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<tr>
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<td>49.000</td>
<td>54.600</td>
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(Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |

Flyaway Unit Cost (Units in Thousands) | - | - | - | - | - | - | - | - | - | - | - |

Gross/Weapon System Unit Cost (Units in Thousands) | - | - | 200.027 | 155.910 | 228.261 | 181.610 | 158.954 | 162.252 | 165.455 | - | Continuing |

Description:
MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The upgraded LLDR system is type classified as an AN/PED-1B. The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) guided and laser guided precision munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. These components provide precision target location and the capability to digitally transmit the targeting information. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass and brings LLDR systems to a common configuration. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams. Funds in this program are a realignment of funds from program Lightweight Laser Designator Rangefinder (LLDR), SSN K31100, for more efficient, effective program management. Funding in this program supports upgrade of LLDR for increased target location accuracy to facilitate employment of currently fielded GPS guided Precision Munitions by dismounted fire support teams.

Secondary Distribution

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<td>92</td>
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<td>197</td>
<td>181</td>
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**Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**

2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:**

KA3100 - Mod Of In-Svc Equip (LLDR)

**ID Code** (A=Service Ready, B=Not Service Ready): 

Program Elements for Code B Items: 

Other Related Program Elements:

**Date:** May 2013

---

**Item Schedule**

<table>
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**Item Schedule**

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<td>FY 2016</td>
<td>FY 2017</td>
<td>FY 2018</td>
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<td>OSIP - LLDR Target Location Improvement</td>
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<td>Total Gross/Weapon System Cost</td>
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<td>49.000</td>
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**Justification:**

FY 2014 Base procurement dollars, in the amount of $26.037 million, supports the upgrade of 167 existing LLDR systems.

FY 2014 Other Contingency Operations (OCO) dollars, in the amount of $21.000 million, supports the procurement of TLMs and additional DLDMS to upgrade 92 existing AN/PED-1 systems to the AN/PED-1B configuration.

The FY 2014 OCO quantity reflected on the P-1 is a technical error. The FY14 OCO quantity of ninety two (92) justified in this set of forms is correct.
**Exhibit P-3A, Individual Modification:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:** KA3100 - Mod Of In-Svc Equip (LLDR)

**Modification Nomenclature**
(Modification Number - Modification Title):
OSIP - LLDR Target Location Improvement

**Date:** May 2013

**Models of Systems Affected:** AN/PED-1 and AN/PED-1A

**Type Modification:** Unclassified

**Related RDT&E PEs:**

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<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>Gross/Weapon System Cost ($ in Millions)</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
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<td>54.600</td>
<td>-</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**

| Gross/Weapon System Unit Cost (Units in Thousands) | -           | -       | 200.027   | 155.910      | 228.261      | 181.610     | 158.954 | 162.252 | 165.455 | -       | Continuing   | Continuing |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**
MOD OF IN-SERVICE EQUIPMENT (LLDR) funds the retrofit of the Lightweight Laser Designator Rangefinder (LLDR, AN/PED-1 and AN/PED-1A) to incorporate target location improvements. The LLDR is a modular system designed for crew-served, man-portable day/night all-weather use for determining the precise location of threat targets, and for designating threat targets for engagement by Global Position System (GPS) precision and laser guided munitions for a variety of Army and Joint weapons systems. The Target Location Module uses a thermal night vision sensor, day camera, laser rangefinder, and digital compass, GPS, and system controller with digital data and video outputs. The Laser Designator Module provides the capability to guide laser-guided munitions and the capability to mark targets for targeting hand-off to aircraft. This effort also replaces earlier Laser Designator Modules with new diode-pumped Laser Designator Modules, reducing weight and power requirements, resulting in lower sustainment costs. These components provide precision target location and the capability to digitally transmit the targeting information. The target location improvement retrofit adds a precision azimuth measurement sensor to supplement the digital compass and brings LLDR systems to a common configuration. Target location improvements enable precision target location and engagement with current and future precision munitions by dismounted fire support teams.
Exhibit P-3A, Individual Modification: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

P-1 Line Item Nomenclature:
KA3100 - Mod Of In-Svc Equip (LLDR)

Modification Nomenclature
(Modification Number - Modification Title):
OSIP - LLDR Target Location Improvement

Models of Systems Affected: AN/PED-1 and AN/PED-1A

Type Modification: Unclassified

Related RDT&E PEs:

| Financial Plan                        | Prior Years | FY 2012 Qty (Each) | FY 2012 Total Cost ($) | FY 2013 Qty (Each) | FY 2013 Total Cost ($) | FY 2014 Base Qty (Each) | FY 2014 Base Total Cost ($) | FY 2014 OCO Qty (Each) | FY 2014 OCO Total Cost ($) | FY 2014 Total Qty (Each) | FY 2014 Total Cost ($) | FY 2015 Qty (Each) | FY 2015 Total Cost ($) | FY 2016 Qty (Each) | FY 2016 Total Cost ($) | FY 2017 Qty (Each) | FY 2017 Total Cost ($) | FY 2018 Qty (Each) | FY 2018 Total Cost ($) | To Complete Qty (Each) | To Complete Total Cost ($) | Total Qty (Each) | Total Cost ($) |
|--------------------------------------|-------------|--------------------|------------------------|--------------------|------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|--------------------------|---------------------|---------------------------|
| Procurement                          |             | 0 / 0.000          | 0 / 0.000              | 0 / 0.000          | 0 / 0.000              | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              |
| LLDR Target Location Improvement     |             | 0 / 0.000          | 0 / 0.000              | 0 / 0.000          | 0 / 0.000              | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              |
| A Kits                               |             | 0 / 0.000          | 0 / 0.000              | 0 / 0.000          | 0 / 0.000              | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              | 0 / 0.000                | 0 / 0.000              |

AN/PED-1 LLDR

<table>
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<th>FY 2013 Qty (Each)</th>
<th>FY 2014 Base Qty (Each)</th>
<th>FY 2014 OCO Qty (Each)</th>
<th>FY 2014 Total Qty (Each)</th>
<th>FY 2015 Qty (Each)</th>
<th>FY 2016 Qty (Each)</th>
<th>FY 2017 Qty (Each)</th>
<th>FY 2018 Qty (Each)</th>
<th>To Complete Qty (Each)</th>
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| LLDR Target Location Improvement Installation Cost
| 0 / 0.000        | 0 / 0.000        | 0 / 0.000               | 0 / 0.000               | 0 / 0.000               | 0 / 0.000        | 0 / 0.000        | 0 / 0.000        | 0 / 0.000        | 0 / 0.000          |

Total Cost (Procurement + Support + Installation)

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<th>FY 2013 Qty (Each)</th>
<th>FY 2014 Base Qty (Each)</th>
<th>FY 2014 OCO Qty (Each)</th>
<th>FY 2014 Total Qty (Each)</th>
<th>FY 2015 Qty (Each)</th>
<th>FY 2016 Qty (Each)</th>
<th>FY 2017 Qty (Each)</th>
<th>FY 2018 Qty (Each)</th>
<th>To Complete Qty (Each)</th>
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<tr>
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**Exhibit P-3A, Individual Modification: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:** KA3100 - Mod Of In-Svc Equip (LLDR)

**Model of In-Svc Equip (LLDR):**

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<th>FY 2015</th>
<th>FY 2016</th>
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<td>Apr 2015</td>
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**Installation:** LLDR Target Location Improvement

**Method of Implementation:** Retrofit

**Installation Name:**

**To Complete**

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<td>FY 2014</td>
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<td>FY 2015</td>
</tr>
<tr>
<td>FY 2016</td>
</tr>
<tr>
<td>FY 2017</td>
</tr>
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</table>

**Installation Schedule**

| APY | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | 1 | 2 | 3 | 4 | TC | Tot |
| In  | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,059| 2,284|
| Out | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 1,161| 2,284|

**Manufacturer Information:** LLDR Target Location Improvement

Manufacturer Name: NGLS

Manufacturer Location: Apopka, FL

Administrative Leadtime (in Months): 4

Production Leadtime (in Months): 12

**Type Modification:** Unclassified

**Related RDT&E PEs:**

**Unclassified**
**UNCLASSIFIED**

**Exhibit P-40, Budget Item Justification Sheet:** PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:**
BA5500 - Counterfire Radars

**ID Code** (A=Service Ready, B=Not Service Ready):
Program Elements for Code B Items:
Other Related Program Elements: 0604823A

**MDAP/MAIS Code(s):**

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<td>19</td>
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<td>762.421</td>
<td>338.177</td>
<td>298.994</td>
<td>312.727</td>
<td>85.830</td>
<td>398.557</td>
<td>348.173</td>
<td>279.351</td>
<td>280.068</td>
<td>22.500</td>
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<td>298.994</td>
<td>312.727</td>
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<td>398.557</td>
<td>348.173</td>
<td>279.351</td>
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<td>22.500</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>298.994</td>
<td>312.727</td>
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<td>398.557</td>
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<td>22.500</td>
<td>Continuing</td>
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</table>

(Initial Spares ($ in Millions)
Flyway Unit Cost (Units in Thousands)
Gross/Weapon System Unit Cost (Units in Thousands)

The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.

FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

**Description:**
The AN/TPQ-53 (formerly known as the Enhanced AN/TPQ-36) Counterfire Target Acquisition Radar System Capability Production Document (CPD) was approved on 29 September 2010. The AN/TPQ-53 System is a highly mobile radar set that automatically detects, classifies, tracks, and locates the point of origin of projectiles fired from mortar, artillery, and rocket systems with sufficient accuracy for first round fire for effect. It mitigates close combat radar coverage gaps and will replace the current AN/TPQ-36 and AN/TPQ-37 Firefinder Radars, modernizing Brigade Combat Teams (BCTs) and Fires Brigades. The AN/TPQ-53 System interoperates with Battle Command Systems (BCSs) to provide the maneuver commander increased counterfire radar flexibility. The AN/TPQ-53 System is capable of being deployed as part of the Indirect Fire Protection Capability (IFPC) System of Systems (SoS) to provide a sense and warn capability for fixed and semi-fixed sites. The AN/TPQ-53 System provides a system with increased range and accuracy throughout a 90 degree search sector (stare mode) as well as 360 degree coverage (rotating) for locating mortar, artillery and rocket firing positions.

Army Acquisition Objective (AAO): 174

**Secondary Distribution**

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<tr>
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### Justification:

FY 2014 Base procurement dollars in the amount of $312.727 million supports the procurement of nineteen (19) AN/TPQ-53 radars and retrofit of initial production systems.

FY 2014 Overseas Contingency Operations (OCO) procurement dollars in the amount of $85.830 million supports the procurement of four (4) AN/TPQ-53 radars.
### Resource Summary

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<th>FY 2014 OCO##</th>
<th>FY 2014 Total</th>
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<th>FY 2016</th>
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<tbody>
<tr>
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<td>15</td>
<td>19</td>
<td>4</td>
<td>23</td>
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<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
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<td>338.177</td>
<td>298.994</td>
<td>312.727</td>
<td>85,830</td>
<td>398,557</td>
<td>-</td>
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<tr>
<td>Less FY Advance Procurement ($ in Millions)</td>
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<td>398,557</td>
<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>Total Obligation Authority ($ in Millions)</td>
<td>762.421</td>
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<td>298.994</td>
<td>312.727</td>
<td>85,830</td>
<td>398,557</td>
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### Cost Elements

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<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>Total Cost ($M)</td>
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May 2013

UNCLASSIFIED
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:** 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:** BA5500 - Counterfire Radars

**Exhibit P-5, Cost Analysis:**

**Item Nomenclature (Item Number - Item Name, DODIC):**
- B05310 - ENHANCED AN/TPQ 36

#### P-1 Line Item Nomenclature:

- **BA5500 - Counterfire Radars**

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**Item Nomenclature:**
- B05310 - ENHANCED AN/TPQ 36

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<td>Quantity (Each)</td>
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**Total Flyaway Cost**
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- **FY 2016:** -
- **FY 2017:** -
- **FY 2018:** -
- **To Complete:** -
- **Total Cost:** -

**Total Recurring Cost**
- **FY 2015:** -
- **FY 2016:** -
- **FY 2017:** -
- **FY 2018:** -
- **To Complete:** -
- **Total Cost:** -

### P-5 Remarks:

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<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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<td>193.935</td>
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<td>85.830</td>
<td>249.356</td>
<td>-</td>
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**UNCLASSIFIED**
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature:**
BA5500 - Counterfire Radars

**Item Nomenclature:**
B05310 - ENHANCED AN/TPQ 36

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**Exhibit P-21, Budget Production Schedule**: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity**: 
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

**P-1 Line Item Nomenclature**: 
BA5500 - Counterfire Radars

**Item Nomenclature**:  
B05310 - ENHANCED AN/TPQ 36

---

**Cost Elements**

(Unit in each)

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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 02: Communications and Electronics Equipment / BSA 86: Elect Equip - Tactical Surv. (Tac Surv)

#### P-1 Line Item Nomenclature:
BA5500 - Counterfire Radars

#### Item Nomenclature:
B05310 - ENHANCED AN/TPQ 36

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**Cost Elements (Units in Each)**

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"A" in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,999 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,999 all quantities are shown in millions (rounded to the nearest million).

**Service/Agency Suffixes:**
- (XVII) LRIP Lot 2
- (XVIII) FRP
Department of Defense
Fiscal Year (FY) 2014 Amended Budget Estimate
May 2013

Army
Justification Book
Other Procurement, Army
Other Support Equipment/Spares, Budget Activity 3/4
Table of Contents

Line Item Table of Contents (by Appropriation then Line Number).................................................................................................................. ii
Line Item Table of Contents (Alphabetically by Line Item Title).................................................................................................................. iii
Exhibit P-40's.................................................................................................................................................................................. 1
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UNCLASSIFIED
### Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

**Initial Spares ($ in Millions)**
- FY 2012: -
- FY 2013: -
- FY 2014: -
- FY 2015: -
- FY 2016: -
- FY 2017: -
- FY 2018: -

**Gross/Weapon System Unit Cost (Units in Thousands)**
- FY 2012: 21,339.282
- FY 2013: 22,666.667
- FY 2014: 39,700.000
- FY 2015: 17,218.000
- FY 2016: 17,218.000
- FY 2017: -
- FY 2018: -

**Description:**
Force Provider is a fully integrated system providing critical basic life support for Soldiers deployed in remote areas. A Force Provider module provides billeting, field feeding and hygiene capabilities that include all the integrated utilities to include climate control, power generation, water and waste water systems and fuel storage. A single Force Provider module is capable of sustaining 600 personnel. Force Provider is fully containerized for rapid deployment and is transportable by rail, sea, land, and air using C-130, C-141, C-17 or C-5A aircraft. With the addition of Cold Weather Kits (CWKs), the module is deployable in temperatures as low as -15 degrees Fahrenheit. Missions for Force Provider are: Base camps for enforcement missions, peace keeping, theater reception/redeployment, intermediate staging base operations, humanitarian aid and disaster relief (both in theater and in austere environments). Force Provider modules are placed in Prepositioned Stocks to meet critical Commander in Chief (CINC) Operations Plan requirements. These systems are configured with optional Resource and Energy Efficiency Kits, Power Generation Kits, Cold Weather Kits and Prime Power Kits which increase their deployment versatility. The Army Acquisition Objective for Force Provider is 59 systems.

Secondary Distribution

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### Justification:

There are no FY 14 Base funds for this program.

FY 14 OCO procurement dollars in the amount of $51.654 million supports production of 3 Force Provider modules to replace battle losses in Theater and procures critical major end items to support FY 14 Reset of Force Provider modules returning from Theater operations. These production modules are the first Force Provider modules to be produced with a totally integrated Resource and Energy Efficiency capability that reduces fuel consumption by 50% and water consumption by 75% for base camp operations. This capability will have a significant impact in Soldier safety by reducing the requirement for dangerous and risky ground resupply convoys in which data shows result in significant U.S. casualties. As a result of continued Urgent Operational Needs Statements (UONS) coming from Theater for Force Provider modules, the Army has been left with a critical void in its ability to deploy rapid basing capabilities. Force Provider assets within Army Prepositioned Stocks (APS) are almost completely depleted, leaving little capability within all of APS for use in emergency circumstances and/or strategic operational contingencies. To meet operational needs in Afghanistan, modules from all world-wide APS locations were deployed. These assets will help fill critical shortages within APS.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181) this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
## Resource Summary

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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions) | - | - | - | - | - | - | - | - | - | - | - |
| Gross/Weapon System Unit Cost (Units in Thousands) | 21,339,282 | 22,666,667 | 39,700,000 | - | 17,218,000 | 17,218,000 | - | - | - | Continuing | Continuing |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012
## This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013

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## P-1 Line Item Nomenclature:

- M80200 - Force Provider

## Item Nomenclature (Item Number - Item Name, DODIC):

- M80200 - Force Provider
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P-5 Remarks:

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### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**P-1 Line Item Nomenclature:** M80200 - Force Provider

**Item Nomenclature:** M80200 - Force Provider

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<th>Contractor and Location</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

#### Appropriation / Budget Activity / Budget Sub Activity:
- 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

#### P-1 Line Item Nomenclature:
- M80200 - Force Provider

#### Item Nomenclature:
- M80200 - Force Provider

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### M80200 - Force Provider

**Hardware Force Provider Module**

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<th>BAL DUE AS OF 1 OCT</th>
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<tr>
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<td>2012</td>
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**Hardware Expeditionary TRICON Set**

<table>
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<th>FY</th>
<th>SERVICE</th>
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<th>QTY</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: OtherProcurement, Army / BA 03: Other Support

**Equipment / BSA 25: Combat Service Support Equipment**

**P-1 Line Item Nomenclature:**
- M80200 - Force Provider

**Item Nomenclature:**
- M80200 - Force Provider

### Cost Elements (Units in Each)

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#### Hardware Force Provider Module

| 1 | 2012 | ARMY | 3 | 3 | - | - | - | - | - | - | - | - | - | - | - | - |
| 1 | 2013 | ARMY³ | 1 | 1 | - | - | - | - | - | - | - | - | - | - | - | - |
| ✓ | 2014 | ARMY³ | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 |

#### Hardware Power Generator Kit

| 2 | 2012 | ARMY | 4 | 4 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2 | 2013 | ARMY³ | 4 | 2 | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| ✓ | 2014 | ARMY³ | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 |

#### Hardware Cold Weather Kit

| 3 | 2012 | ARMY | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3 | 2013 | ARMY³ | 6 | 6 | - | - | - | - | - | - | - | - | - | - | - | - | - |

#### Hardware Expeditionary TRICON Set

<p>| 4 | 2012 | ARMY | 8 | 8 | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4 | 2013 | ARMY³ | 6 | 4 | 2 | 1 | 1 | - | - | - | - | - | - | - | - | - | - |
| ✓ | 2014 | ARMY³ | 3 | - | 3 | - | - | - | - | - | - | - | - | - | - | 1 | 1 | 1 |</p>
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<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Initial</th>
<th>Procurement Leadtime (Months)</th>
<th>Reorder</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Letterkenny Army Depot - Chambersburg, PA</td>
<td>1.00</td>
<td>6.00</td>
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<td>Initial</td>
<td>Mfg PLT</td>
<td>Total After Oct 1</td>
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<td>2</td>
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<td>Initial</td>
<td>Mfg PLT</td>
<td>Total After Oct 1</td>
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<td>Mfg PLT</td>
<td>Total After Oct 1</td>
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<td>10</td>
<td>Initial</td>
<td>Mfg PLT</td>
<td>Total After Oct 1</td>
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</table>

Remarks:
Module production rates (min, 1-8-5, and max are yearly rates due to the size and complexity of the system. (For manufacturer 1 only). Remaining manufacturer production rates are monthly.
"A" in the Delivery Schedule indicated the Contract Award Date.
Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:
(I) OCO
(II) OCO
(III) BASE
(IV) OCO
(V) OCO
(VI) OCO
(VII) OCO

Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army
Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment
P-1 Line Item Nomenclature: M80200 - Force Provider
Item Nomenclature: M80200 - Force Provider
Date: May 2013

Remarks:
Module production rates (min, 1-8-5, and max are yearly rates due to the size and complexity of the system. (For manufacturer 1 only). Remaining manufacturer production rates are monthly.
"A" in the Delivery Schedule indicated the Contract Award Date.
Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

Service/Agency Suffixes:
(I) OCO
(II) OCO
(III) BASE
(IV) OCO
(V) OCO
(VI) OCO
(VII) OCO

UNCLASSIFIED
### Description:
The Field Feeding and Refrigeration program provides equipment to conduct tactical food service operations. Field Feeding is a combat multiplier which improves morale and enhances the soldier's physical and cognitive capabilities. Associated with food service operations are storage, preparation, serving and cleanup. Equipment items include: Field kitchens, food sanitation centers, and refrigerated containers. In conjunction with food service personnel and field rations, this equipment comprises the Army Field Feeding System (AFFS) which supports the Army standard of one hot prepared meal per day in the field. This program provides a critical capability that supports Army transformation, the modularity concept while maintaining readiness through fielding and integration of new equipment. It enhances the field Soldier's well being and reduces sustainment requirements for related lift demands, combat zone footprint, and logistical support costs.

### Resource Summary

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<td>18</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

### Initial Spares ($ in Millions)

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<th>FY 2013</th>
<th>FY 2014</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>To Complete</th>
<th>Total</th>
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### Secondary Distribution

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<td>ANG</td>
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**Exhibit P-40, Budget Item Justification Sheet: PB Amended 2014 Army**

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**UNCLASSIFIED**

**Program Elements for Code B Items:**
- **Other Related Program Elements:** 0604713A

**MDAP/MAIS Code(s):**

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<th>Item Nomenclature</th>
<th>Exhibits</th>
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<tbody>
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<td>Unit Cost ($K)</td>
<td>Qty (Each)</td>
<td>Total Cost ($M)</td>
<td>Unit Cost ($K)</td>
<td>Qty (Each)</td>
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<td>M65801 - REFRIGERATED CONTAINER SYSTEMS</td>
<td>P5, P5A, P21</td>
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<tr>
<td>SANITATION CENTER, FIELD FEEDING (FSC)</td>
<td>P40A</td>
<td>A</td>
<td>-</td>
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<tr>
<td>M65803 - KITCHEN, CONTAINERIZED, FIELD (CK)</td>
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<td>-</td>
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<td>M65806 - Assault Kitchen (AK)</td>
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**Total Gross/Weapon System Cost**

247.729 26.860 27.417 28.096 6.264 34.360

**Item Nomenclature**
- Item Nomenclature represents Item Number, DODIC, and Item Name for the P40A and P5; Name for the P18 and P23; Modification Number and Modification Title for the P3A; Item Number and Item Name for the P10.

**Note:** Totals in this Exhibit P-40 set may not be exact or add due to rounding.

**Justification:**

FY 14 OCO procurement dollars in the amount of $6.264 million supports production of 18 Containerized Kitchens (CK's) to fill Army Prepositioned Stock (APS) shortages due to battle losses and washouts resulting from overseas operations.

In accordance with Section 1815 of the FY 2008 National Defense Authorization Act (P.L. 110-181), this item is necessary for use by the active and reserve components of the Armed Forces for homeland defense missions, domestic emergency responses, and providing military support to civil authorities.
### Resource Summary

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<th>FY 2014</th>
<th>FY 2015</th>
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<tbody>
<tr>
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<td>22.441</td>
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(Initial Spares ($ in Millions))

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<th>FY 2014</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>To Complete</th>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Gross/Weapon System Unit Cost (Units in Thousands)</td>
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(Continued)

### Cost Elements

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<td>Gross Weapon System Cost</td>
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### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**
M65800 - Field Feeding Equipment

**Item Nomenclature (Item Number - Item Name, DODIC):**
M65801 - REFRIGERATED CONTAINER SYSTEMS

**Date:** May 2013

#### Exhibit P-5, Cost Analysis:

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**P-5 Remarks:**

**Secondary Distribution**

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<th>FY 2015</th>
<th>FY 2016</th>
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Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

P-1 Line Item Nomenclature:
M65800 - Field Feeding Equipment

Item Nomenclature:
M65801 - REFRIGERATED CONTAINER SYSTEMS

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| | C | O | E | A | E | A | P | A | U | U | E |
| | T | V | C | N | B | R | R | Y | N | L | G |
| | P | T | V | C | N | B | R | R | Y | N | L | G |

| | Fiscal Year 2012 | | Calendar Year 2012 | | | Fiscal Year 2013 | | Calendar Year 2013 | | |
|---|---|---|---|---|---|---|---|---|---|
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| | C | O | E | A | E | A | P | A | U | U | E |
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Cost Elements
(Units in Each)

Hardware MTRCS

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<th>SERVICE</th>
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### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**
M65800 - Field Feeding Equipment

**Item Nomenclature:**
M65801 - REFRIGERATED CONTAINER SYSTEMS

**Date:** May 2013

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<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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<td>1 2012 ARMY 166</td>
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LI M65800 - Field Feeding Equipment

UNCLASSIFIED

Army

Page 7 of 19

UNCLASSIFIED

P-1 Line #147
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army
- BA 03: Other Support Equipment
- BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**
- M65800 - Field Feeding Equipment

**Item Nomenclature:**
- M65801 - REFRIGERATED CONTAINER SYSTEMS

### Production Rates (Each / Month) and Procurement Leadtime (Months)

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<th>MFR Name - Location</th>
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<th>Initial</th>
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<tr>
<td></td>
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<td>ALT Prior to Oct 1</td>
<td>ALT After Oct 1</td>
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<td>20.00</td>
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**Remarks:**
Production rates shown are monthly.

"A" in the delivery schedule indicated the contract award date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
### Exhibit P-5, Cost Analysis: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**
- M65800 - Field Feeding Equipment

**Item Nomenclature (Item Number - Item Name, DODIC):**
- M65803 - KITCHEN, CONTAINERIZED, FIELD (CK)

### Resource Summary

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<th>Resource Summary</th>
<th>Prior Years</th>
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<th>FY 2013 # Base</th>
<th>FY 2014 OCO #</th>
<th>FY 2014 Total</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>To Complete</th>
<th>Total</th>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>171.797</td>
<td>-</td>
<td>0.200</td>
<td>6.264</td>
<td>6.464</td>
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<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>171.797</td>
<td>-</td>
<td>0.200</td>
<td>6.264</td>
<td>6.464</td>
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<td>-</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
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<td>0.200</td>
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</table>

(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)

| Initial Spares ($ in Millions)                   | -           | -       | -              | -             | -             | -       | -       | -       | -       | -           | -     |
| Gross/Weapon System Unit Cost (Units in Thousands) | 316.143     | -       | -              | 348,000       | 359,111       | -       | -       | -       | -       | -           | -     |

# FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

## FY 2014 Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013.

### Cost Elements

#### FY 2014 Base

**Cost Elements (# indicates the presence of a P-5A)**

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<th>FY 2013</th>
<th>FY 2014 OCO</th>
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<td>Gross Weapon System Cost</td>
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</table>

#### Total Cost

| Flyaway Cost |       |               |         |         |             | 264,000       | 18       | 4,750   | 264,000   | 18       | 4,750   |

**FY 2014 Total**

**FY 2015**

**FY 2016**

**FY 2017**

**FY 2018**

**To Complete**

**Total Cost**
### P-5 Remarks:

**Secondary Distribution**

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<td>Total Obligation Authority</td>
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</table>
Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

Date: May 2013

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

P-1 Line Item Nomenclature:
M65800 - Field Feeding Equipment

Item Nomenclature:
M65803 - KITCHEN, CONTAINERIZED, FIELD (CK)

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>O</th>
<th>C</th>
<th>O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty (Each)</th>
<th>Unit Cost ($K)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
</tr>
</thead>
</table>
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
- 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**
- M65800 - Field Feeding Equipment

**Item Nomenclature:**
- M65803 - KITCHEN, CONTAINERIZED, FIELD (CK)

#### Cost Elements

<table>
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<tr>
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<th>Fiscal Year 2014</th>
<th>Calendar Year 2014</th>
<th>Fiscal Year 2015</th>
<th>Calendar Year 2015</th>
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</thead>
<tbody>
<tr>
<td>✓ 1 2014</td>
<td>ARMY (VIII)</td>
<td>18</td>
<td>18</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>C O E A E A P A U U E C O E A E A P A U U E</td>
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<tr>
<td></td>
<td></td>
<td>T V C N B R R Y N L G P T V C N B R R Y N L G P</td>
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</tbody>
</table>

**Hardware CK:**
- M65800 - Field Feeding Equipment
- Army
### Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

**Date:** May 2013

**Appropriation / Budget Activity / Budget Sub Activity:**
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**
M65800 - Field Feeding Equipment

**Item Nomenclature:**
M65803 - KITCHEN, CONTAINERIZED, FIELD (CK)

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
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<tbody>
<tr>
<td></td>
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<td>ALT Prior to Oct 1</td>
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<td>16.00</td>
<td>-</td>
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</table>

*A* in the Delivery Schedule indicated the Contract Award Date.

Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).

**Service/Agency Suffixes:**
(VIII) OCO
### Resource Summary

<table>
<thead>
<tr>
<th>Prior Years</th>
<th>FY 2012</th>
<th>FY 2013</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
<th>FY 2015</th>
<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
<th>To Complete</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Procurement Quantity (Units in Each)</td>
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<td>79</td>
<td>84</td>
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<td>84</td>
<td>-</td>
<td>-</td>
<td>-</td>
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</tr>
<tr>
<td>Gross/Weapon System Cost ($ in Millions)</td>
<td>34.215</td>
<td>4.727</td>
<td>4.976</td>
<td>5.212</td>
<td>-</td>
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<tr>
<td>Less PY Advance Procurement ($ in Millions)</td>
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<tr>
<td>Net Procurement (P1) ($ in Millions)</td>
<td>34.215</td>
<td>4.727</td>
<td>4.976</td>
<td>5.212</td>
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<td>5.212</td>
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<td>Continuing</td>
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<tr>
<td>Plus CY Advance Procurement ($ in Millions)</td>
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<td>-</td>
<td>-</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Total Obligation Authority ($ in Millions)</td>
<td>34.215</td>
<td>4.727</td>
<td>4.976</td>
<td>5.212</td>
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<td>5.212</td>
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<td>-</td>
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<td>Continuing</td>
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</table>

(Continuing)

- **Total Recurring Cost ($ in Millions)**
  - FY 2012: 70.257
  - FY 2013: 60.603
  - FY 2014 Total: 130.859

- **Total Flyaway Cost ($ in Millions)**
  - FY 2012: 34.215
  - FY 2013: 4.727
  - FY 2014 Total: 8.452

- **Cost Elements**

  - **Flyaway Cost**
    - **Recurring Cost**
      - Hardware AK: 40.700
      - Hardware Spare Parts: -
      - Engineering Changes: -
      - System Engineering/Program Management: -
      - Fielding: -
  - **Total Recurring Cost**: 20.641
  - **Total Flyaway Cost**: 20.641
  - **Gross Weapon System Cost**: 34.215

# FY 2013 Program is from the FY 2013 President’s Budget, submitted February 2012

## Item Nomenclature (Item Number - Item Name, DODIC):
- M65800 - Field Feeding Equipment
- M65806 - Assault Kitchen (AK)
Exhibit P-5, Cost Analysis: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity: 2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

P-1 Line Item Nomenclature: M65800 - Field Feeding Equipment

Item Nomenclature (Item Number - Item Name, DODIC): M65806 - Assault Kitchen (AK)

<table>
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<th>Cost Elements</th>
<th>ID CD</th>
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<th>FY 2016</th>
<th>FY 2017</th>
<th>FY 2018</th>
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<th>Total Cost</th>
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<tr>
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<td>Unit Cost ($ K)</td>
<td>Quantity</td>
<td>Total Cost ($ M)</td>
<td>Unit Cost ($ K)</td>
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<tr>
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P-5 Remarks:

Secondary Distribution

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<td>Army</td>
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<td>66</td>
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<td>AR</td>
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Date: May 2013
### Exhibit P-5A, Budget Procurement History and Planning: PB Amended 2014 Army

**Appropriation / Budget Activity / Budget Sub Activity:**  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

**P-1 Line Item Nomenclature:**  
M65800 - Field Feeding Equipment

**Item Nomenclature:**  
M65806 - Assault Kitchen (AK)

#### Cost Elements

<table>
<thead>
<tr>
<th>Cost Elements</th>
<th>O</th>
<th>C</th>
<th>O</th>
<th>FY</th>
<th>Contractor and Location</th>
<th>Method/Type, or Funding Vehicle</th>
<th>Location of PCO</th>
<th>Award Date</th>
<th>Date of First Delivery</th>
<th>Qty</th>
<th>Unit Cost ($ K)</th>
<th>Specs Avail Now?</th>
<th>Date Revsn Avail</th>
<th>RFP Issue Date</th>
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<tbody>
<tr>
<td>†Hardware AK</td>
<td>2012</td>
<td>Rock Island Arsenal / Rock Island, IL</td>
<td>MIPR</td>
<td>PMFSS, Natick, MA</td>
<td>Jan 2012</td>
<td>Jul 2012</td>
<td>78</td>
<td>46.000</td>
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<tr>
<td>†Hardware AK</td>
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<td>MIPR</td>
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<td>Jan 2013</td>
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<td>Y</td>
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<tr>
<td>†Hardware AK</td>
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<td>Y</td>
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<td></td>
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</table>
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

P-1 Line Item Nomenclature:
M65800 - Field Feeding Equipment

Item Nomenclature:
M65806 - Assault Kitchen (AK)

<table>
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<th>Cost Elements</th>
<th>Fiscal Year 2012</th>
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<tbody>
<tr>
<td>M O F R # F Y</td>
<td>PROC QTY</td>
<td>ACCEP PRIOR TO 1 OCT</td>
<td>BAL DUE AS OF 1 OCT</td>
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</tr>
<tr>
<td>1 2012 ARMY</td>
<td>78</td>
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<tr>
<td>1 2013 ARMY</td>
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<tr>
<td>1 2014 ARMY</td>
<td>84</td>
<td>-</td>
<td>84</td>
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</tbody>
</table>

Hardware AK

LI M65800 - Field Feeding Equipment
UNCLASSIFIED
Army

Page 17 of 19
P-1 Line #147

UNCLASSIFIED

Date: May 2013
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army

Appropriation / Budget Activity / Budget Sub Activity:
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment

P-1 Line Item Nomenclature:
M65800 - Field Feeding Equipment

Item Nomenclature:
M65806 - Assault Kitchen (AK)

Cost Elements

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<th>Fiscal Year 2015</th>
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<tbody>
<tr>
<td></td>
<td>Calendar Year 2014</td>
<td>Calendar Year 2015</td>
</tr>
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</table>

Hardware AK
Exhibit P-21, Budget Production Schedule: PB Amended 2014 Army  
Appropriation / Budget Activity / Budget Sub Activity:  
2035A: Other Procurement, Army / BA 03: Other Support Equipment / BSA 25: Combat Service Support Equipment  
P-1 Line Item Nomenclature:  
M65800 - Field Feeding Equipment  
Item Nomenclature:  
M65806 - Assault Kitchen (AK)  

<table>
<thead>
<tr>
<th>MFR #</th>
<th>MFR Name - Location</th>
<th>MSR</th>
<th>1-8-5</th>
<th>MAX</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
<th>ALT Prior to Oct 1</th>
<th>ALT After Oct 1</th>
<th>Mfg PLT</th>
<th>Total After Oct 1</th>
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<tbody>
<tr>
<td>1</td>
<td>Rock Island Arsenal - Rock Island, IL</td>
<td>6.00</td>
<td>20.00</td>
<td>40.00</td>
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<td>10</td>
<td>-</td>
<td>4</td>
<td>8</td>
<td>12</td>
</tr>
</tbody>
</table>

Remarks:  
Production rates shown are monthly.  
"A" in the Delivery Schedule indicated the Contract Award Date.  
Due to space limitations, quantities in the Exhibit P-21 delivery calendar are truncated and rounded based on the maximum quantity in the calendar as follows. If the maximum quantity is less than or equal to 99,999, all quantities are shown as each. If the maximum quantity is between 100,000 and 99,999,499 all quantities are shown in thousands (rounded to the nearest thousand). If the maximum quantity is greater than 99,999,499 all quantities are shown in millions (rounded to the nearest million).
## Appropriation

<table>
<thead>
<tr>
<th></th>
<th>FY 2012 Base &amp; OCO</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Research, Development, Test &amp; Eval, Army</td>
<td>8,705,075</td>
<td>8,795,214</td>
<td>19,860</td>
<td>8,615,074</td>
<td>7,989,102</td>
<td>7,000</td>
<td>7,996,102</td>
</tr>
<tr>
<td>Total Research, Development, Test &amp; Evaluation</td>
<td>8,705,075</td>
<td>8,795,214</td>
<td>19,860</td>
<td>8,615,074</td>
<td>7,989,102</td>
<td>7,000</td>
<td>7,996,102</td>
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</table>

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R-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
### Summary Recap of Budget Activities

<table>
<thead>
<tr>
<th></th>
<th>FY 2012 (Base &amp; OCO)</th>
<th>FY 2013 Base Request with CR Adj*</th>
<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>Applied Research</td>
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<td>874,730</td>
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<tr>
<td>Advanced Technology Development</td>
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</tr>
<tr>
<td>Advanced Component Development &amp; Prototypes</td>
<td>513,368</td>
<td>610,121</td>
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<td>System Development &amp; Demonstration</td>
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<td>Operational Systems Development</td>
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<tr>
<td><strong>Total Research, Development, Test &amp; Evaluation</strong></td>
<td><strong>8,705,075</strong></td>
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### Summary Recap of FYDP Programs

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<th>FY 2013 OCO Request with CR Adj*</th>
<th>FY 2013 Total Request with CR Adj*</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
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<td>General Purpose Forces</td>
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<td>Intelligence and Communications</td>
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R-ICA; FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12
* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
## Summary Recap of Budget Activities

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## Summary Recap of FYDP Programs

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## Appropriation: 2040A Research, Development, Test & Eval, Army

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### Appropriation: 2014A Research, Development, Test & Eval, Army

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R-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12

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<th>Line</th>
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Advanced Technology Development

1,067,459                       890,722                                    890,722                                    882,106                                    882,106

54   | 0603305A | Army Missile Defense Systems Integration               | 23,463                | 14,505                      | 15,301                          | 15,301                            |              |             |              | U       |
| 55   | 0603308A | Army Space Systems Integration                        | 3,557                 | 9,876                       | 13,592                          | 13,592                            |              |             |              | U       |
| 56   | 0603619A | Landmine Warfare and Barrier - Adv Dev                 | 16,399                | 5,054                       | 10,625                          | 10,625                            |              |             |              | U       |
| 57   | 0603627A | Smoke, Obscurent and Target Defeating Sys-Adv Dev     | 4,357                 | 2,725                       | 2,725                           | 2,725                             |              |             |              | U       |
| 58   | 0603639A | Tank and Medium Caliber Ammunition                     | 40,201                | 30,560                      | 30,612                          | 30,612                            |              |             |              | U       |
| 59   | 0603653A | Advanced Tank Armament System (ATAS)                   | 62,343                | 14,347                      | 49,989                          | 49,989                            |              |             |              | U       |
| 60   | 0603747A | Soldier Support and Survivability                      | 13,720                | 19,860                      | 29,933                          | 6,703                             |              |             |              | U       |
| 61   | 0603766A | Tactical Electronic Surveillance System - Adv Dev       | 5,757                 | 8,660                       | 6,894                           | 6,894                             |              |             |              | U       |
| 62   | 0603774A | Night Vision Systems Advanced Development              | 10,715                | 9,066                       | 9,066                           | 9,066                             |              |             |              | U       |
| 63   | 0603779A | Environmental Quality Technology - Dem/Val             | 4,788                 | 4,631                       | 2,633                           | 2,633                             |              |             |              | U       |
| 64   | 0603782A | Warfighter Information Network-Tactical - Dem/Val      | 177,122               | 278,018                     | 278,018                          | 272,384                           |              |             |              | U       |

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### Appropriation: 2040A Research, Development, Test & Eval, Army

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- 629,981
- 636,392

R-ICA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12
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R-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:38:12
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UNCLASSIFIED

Department of the Army
FY 2014 President's Budget
Exhibit R-1 FY 2014 President's Budget
Total Obligational Authority
(Dollars in Thousands)  
May 13, 2013

Appropriation: 2040A Research, Development, Test & Eval, Army

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R-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12
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### Appropriation: 2010A Research, Development, Test & Eval, Army

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R-ICA: FY 2014 President’s Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12

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R-1CA: FY 2014 President's Budget (Published Version including OCO), as of May 13, 2013 at 13:35:12

* Reflects the FY 2013 President's Budget with an undistributed adjustment to match the Annualized Continuing Resolution funding level by appropriation.
Table of Contents

Program Element Table of Contents (by Budget Activity then Line Item Number)................................................................................................. ii
Program Element Table of Contents (Alphabetically by Program Element Title).................................................................................................. iii
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Program Element Table of Contents (by Budget Activity then Line Item Number)

Budget Activity 05: System Development & Demonstration (SDD)
Appropriation 2040: Research, Development, Test & Evaluation, Army

<table>
<thead>
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<td>Program Element Number</td>
<td>Line Item</td>
<td>Budget Activity</td>
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<td>87</td>
<td>05</td>
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</table>
### A. Mission Description and Budget Item Justification

This program element aligns system development and demonstration of Heavy Tactical Vehicles with Future Modular Force requirements to support combat and combat support missions. These missions include the following: line haul, local haul, and unit resupply. These trucks transport water, ammunition, and general cargo over all terrain and throughout the battle-space. Funding will also be used for developing the Army's next generation of tactical trucks, as part of the Army's Tactical Wheeled Vehicle Modernization Strategy. Funding in Project 659 supports the Family of Heavy Trucks (FHTV) Heavy Dump Truck (HDT). Funding in Project VR5 supports periodic, evolutionary upgrade of survivability and crew protection for Heavy Tactical Vehicles as described in the Long Term Protection Strategy.

In FY14, Army PM MRAP will execute research and development on survivability, mobility and storage technologies. Within the survivability arena, JPO MRAP will focus on improved underbody armor concepts to improve current capabilities and to accomplish this with no to only minimal increase in vehicle weight. Additional survivability efforts will work toward RPG/Shaped Charge threat defeat mechanisms that have a higher probability of defeating this prolific threat, as well as developments in Transparent Armor (TA) that will extend the life of the TA in order to reduce sustainment costs. Additional analysis of black box data recorders from vehicles operating in a home station training profile will also give us opportunities to reduce operating and sustainment costs when operating CONUS. Due to the size and increased weight of the enduring MRAP variants, mobility studies will be conducted to identify technologies that will regain levels of mobility that were traded off during previous survivability upgrades. Since a significant portion of the MRAP vehicles will be stored in APS locations, PM MRAP will also conduct corrosion protection efforts to develop strategies to minimize degradation of systems that are held in long term storage.

"FY 2014 OCO funds support upgrades for vehicles in ongoing combat operations."

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* FY 2013 Program is from the FY 2013 President's Budget, submitted February 2012

** This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013
B. Program Change Summary ($ in Millions)  

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<tr>
<td>• Congressional Directed Reductions</td>
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<td>• Congressional Rescissions</td>
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<td>-</td>
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<tr>
<td>• Congressional Adds</td>
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<tr>
<td>• Congressional Directed Transfers</td>
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<td>-</td>
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<td>• Reprogrammings</td>
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<td>• SBIR/STTR Transfer</td>
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<td>-1.052</td>
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</table>
A. Mission Description and Budget Item Justification

The Heavy Dump Truck (HDT) supports construction projects by loading, transporting and dumping payloads of sand and gravel aggregates, crushed rock, hot asphalt mixes, earth, clay, rubble, large boulders and other materials up to gross vehicle weight rating to job sites under worldwide climatic conditions. The HDT also serves as a quarry truck for the quick transport of bulk raw earth material to and from the crushing screening and washing plant and the asphalt mixing plant and the HDT also serves as a transportation asset for organizational equipment.

The HDT is required to replace the M917 and F5070 HDT.

In FY14, Army PM MRAP will execute research and development on survivability, mobility and storage technologies. Within the survivability arena, JPO MRAP will focus on improved underbody armor concepts to improve current capabilities and to accomplish this with no to only minimal increase in vehicle weight. Additional survivability efforts will work toward RPG/Shaped Charge threat defeat mechanisms that have a higher probability of defeating this prolific threat, as well as developments in Transparent Armor (TA) that will extend the life of the TA in order to reduce sustainment costs. Additional analysis of black box data recorders from vehicles operating in a home station training profile will also give us opportunities to reduce operating and sustainment costs when operating CONUS. Due to the size and increased weight of the enduring MRAP variants, mobility studies will be conducted to identify technologies that will regain levels of mobility that were traded off during previous survivability upgrades. Since a significant portion of the MRAP vehicles will be stored in APS locations, PM MRAP will also conduct corrosion protection efforts to develop strategies to minimize degradation of systems that are held in long term storage.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

| Title: Heavy Dump Truck |
| Description: Truck Test Assets |

### APPROPRIATION/BUDGET ACTIVITY

<table>
<thead>
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<th>APPROPRIATION/BUDGET ACTIVITY</th>
<th>R-1 ITEM NOMENCLATURE</th>
<th>PROJECT</th>
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<td>659: Family Of Hvy Tac Veh</td>
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<td>BA 5: System Development &amp; Demonstration (SDD)</td>
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### COST ($ in Millions)

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<td>3.000</td>
<td>3.000</td>
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### Note

- The Heavy Dump Truck supports construction projects by loading, transporting and dumping payloads of sand and gravel aggregates, crushed rock, hot asphalt mixes, earth, clay, rubble, large boulders and other materials up to gross vehicle weight rating to job sites under worldwide climatic conditions.
- The HDT also serves as a quarry truck for the quick transport of bulk raw earth material to and from the crushing screening and washing plant and the asphalt mixing plant.
- The HDT also serves as a transportation asset for organizational equipment.
- The HDT is required to replace the M917 and F5070 HDT.

In FY14, Army PM MRAP will execute research and development on survivability, mobility and storage technologies. Within the survivability arena, JPO MRAP will focus on improved underbody armor concepts to improve current capabilities and to accomplish this with no to only minimal increase in vehicle weight. Additional survivability efforts will work toward RPG/Shaped Charge threat defeat mechanisms that have a higher probability of defeating this prolific threat, as well as developments in Transparent Armor (TA) that will extend the life of the TA in order to reduce sustainment costs. Additional analysis of black box data recorders from vehicles operating in a home station training profile will also give us opportunities to reduce operating and sustainment costs when operating CONUS. Due to the size and increased weight of the enduring MRAP variants, mobility studies will be conducted to identify technologies that will regain levels of mobility that were traded off during previous survivability upgrades. Since a significant portion of the MRAP vehicles will be stored in APS locations, PM MRAP will also conduct corrosion protection efforts to develop strategies to minimize degradation of systems that are held in long term storage.
### B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

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**FY 2013 Plans:**
Funds will provide program support to the Heavy Tactical Vehicles family.

**FY 2014 Plans:**
Funds will provide program support to the Heavy Tactical Vehicles family.

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**FY 2014 OCO Plans:**
This project only has OCO dollars for FY12

**Accomplishments/Planned Programs Subtotals**

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Remarks

D. Acquisition Strategy

Funds will provide for test assets, design and integration of Military specific requirements; test and evaluation; and program management in support of FHTV - Heavy Dump Truck (HDT).

Funds will provide for test and evaluation, armor and underbody development and technology improvements in support of MRAP Vehicles - Maxx Pro and M-ATV.

E. Performance Metrics

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

F. Major Performers

N/A
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<th>Cost</th>
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<th>Total Cost</th>
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**Subtotal** | 0.000 | 0.000 | 0.000 | 10.167 |

## Product Development ($ in Millions)

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**Subtotal** | 0.000 | 0.000 | 0.000 | 5.410 |

## Support ($ in Millions)

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**Subtotal** | 0.000 | 0.000 | 0.050 | 0.150 |

## Test and Evaluation ($ in Millions)

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**Subtotal** | 0.000 | 0.000 | 0.000 | 3.545 | 2.000 | 5.545 |
### Project Cost Totals

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<td>End Quarter</td>
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A. Mission Description and Budget Item Justification

Movement Tracking System (MTS) is a satellite based, asset visibility and situational awareness enabler that assists Combat Support/Combat Service Support (CS/ CSS) commanders and their staffs. MTS identifies and tracks the location of vehicles, communicates with vehicle operators, and redirects missions on a worldwide, near real-time basis during peacetime operations and war. MTS provides the capability to link ground level operators conducting missions and commanders/managers that plan, direct, and control operations and allows for continuous CS/CSS asset visibility across the tactical area of operations. FY08/09 funding supported development of block modifications on the MTS. This block modification will develop and test interfaces to the Transportation Coordinator's Automated Information for Movement System (TC AIMS II) and Global Combat Support System-Army (GCCS-Army). FY12 funding continues interface development & testing.

There is no FY14 Base or OCO funding for this project. The MTS program is being converged into the PM FBCB2 Joint Battle Command-Platform (JBC-P), as 'JBC-P Log'.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

Title: Movement Tracking System (MTS)

Description: Funding is provided for the following effort

FY 2012 Accomplishments:
Will continue to provide improvements to the system

Title: System Testing

Description: Funding is provided for the following effort

Note:
Testing includes Information Assurance (IAVA), penetration testing, etc.
<table>
<thead>
<tr>
<th>R-1 ITEM NOMENCLATURE</th>
<th>PROJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE 0604622A: Family of Heavy Tactical Vehicles</td>
<td>65A: MOVEMENT TRACKING SYSTEM (MTS)</td>
</tr>
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</table>

### APPROPRIATION/BUDGET ACTIVITY

<table>
<thead>
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<th>2040: Research, Development, Test &amp; Evaluation, Army</th>
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<tbody>
<tr>
<td>BA 5: System Development &amp; Demonstration (SDD)</td>
</tr>
</tbody>
</table>

### B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

**FY 2012 Accomplishments:**
Testing includes Information Assurance (IAVA) testing, penetration testing, etc.

### C. Other Program Funding Summary ($ in Millions)

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Remarks

**D. Acquisition Strategy**
RDTE efforts to support block development approach through a continuous series of overlapping modular development and integration testing to include multiple interface developments in support of follow-on production.

**E. Performance Metrics**
Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

**F. Major Performers**
N/A
### Product Development ($ in Millions)

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<th>Contract Method &amp; Type</th>
<th>Performing Activity &amp; Location</th>
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<th>Cost</th>
<th>Award Date</th>
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<tbody>
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**Subtotal**

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<th>Award Date</th>
<th>FY 2014 Base</th>
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<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
<th>Cost</th>
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<tr>
<td>14.751</td>
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</table>

**Remarks**

Due to transfer of Movement Tracking System (MTS) from Program Executive Office Enterprise Information Systems (PEO EIS) to Program Executive Office for Command, Control and Communications - Tactical (PEO C3T), there was a change in the acquisition strategy. In lieu of a planned full and open competition, remaining hardware components and services will be purchased from DRS Tactical Systems, Inc. (under a GSA contract), Comtech Mobile Datacom Corporation (CMDC) and Engineering Solutions and Products, Inc. (ESP), under Force XXI Battle Command-Brigade-and-Below (FBCB2) contract.

### Test and Evaluation ($ in Millions)

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<th>FY 2014 Base</th>
<th>Award Date</th>
<th>FY 2014 OCO</th>
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<th>Cost</th>
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**Subtotal**

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<th>Award Date</th>
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<th>Award Date</th>
<th>FY 2014 OCO</th>
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<td>3.238</td>
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**Remarks**

Prototype testing.

### Project Cost Totals

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<th>FY 2013</th>
<th>FY 2014 Base</th>
<th>FY 2014 OCO</th>
<th>FY 2014 Total</th>
<th>Cost</th>
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**Remarks**

Due to transfer of Movement Tracking System (MTS) from Program Executive Office Enterprise Information Systems (PEO EIS) to Program Executive Office for Command, Control and Communications - Tactical (PEO C3T), there was a change in the acquisition strategy. In lieu of a planned full and open competition, remaining hardware components and services will be purchased from DRS Tactical Systems, Inc. (under a GSA contract), Comtech Mobile Datacom Corporation (CMDC) and Engineering Solutions and Products, Inc. (ESP), under Force XXI Battle Command-Brigade-and-Below (FBCB2) contract.
<table>
<thead>
<tr>
<th></th>
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<th>FY 2016</th>
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<tr>
<td>MTS Full Deployment</td>
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**Exhibit R-4A, RDT&E Schedule Details:** PB Amended 2014 Army  
**DATE:** May 2013

<table>
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<th>APPROPRIATION/BUDGET ACTIVITY</th>
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<th>PROJECT</th>
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<td>2040: Research, Development, Test &amp; Evaluation, Army</td>
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<td>65A: MOVEMENT TRACKING SYSTEM (MTS)</td>
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### Schedule Details

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### APPROPRIATION/BUDGET ACTIVITY

2040: Research, Development, Test & Evaluation, Army  
BA 5: System Development & Demonstration (SDD)

### R-1 ITEM NOMENCLATURE

PE 0604622A: Family of Heavy Tactical Vehicles  
E50: TRAILER DEVELOPMENT

### PROJECT

EXHIBIT R-2A, RDT&E Project Justification: PB Amended 2014 Army  
DATE: May 2013

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<tr>
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**Quantity of RDT&E Articles**

FY 2012 Program is from the FY 2013 President's Budget, submitted February 2012  
**This Budget Amendment, which includes Base and OCO funding for FY 2014, replaces the FY 2014 Base Budget Request only submission of April 2013**

### A. Mission Description and Budget Item Justification

This program element supports continued modernization of the Army's trailer fleet. The FY 2012 funds support tire improvement efforts intended to extend the life of the tire. FY 2012 funding will compare capabilities of the current M1000 Trailer to Objective Requirements, perform capability gap analysis, market surveys and propose concept trailers to meet future objective requirements. Modernized trailers are better able to match the capabilities of today's improved tactical wheeled vehicles and tractors.

### B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

**Title:** Tire Improvement and Next Generation Trailer Study.  
**Articles:**  
FY 2012: 1.869  
FY 2013: 0.000  
FY 2014 Base: 0.000  
FY 2014 OCO: 0.000  
FY 2014 Total: 0.000

**Description:** Funding is provided for the following efforts.

**FY 2012 Accomplishments:**
The tire improvement effort is to improve wear and identify aging characteristics that will be used to improve future tires. The Next Generation Heavy Trailer Study will compare capabilities of the current M1000 Trailer to Objective Requirements, perform capability gap analysis, market surveys and propose concept trailers to meet future objective requirements. Modernized trailers are better able to match the capabilities of today's improved tactical wheeled vehicles and tractors.

**Title:** SBIR/STTR  
**Articles:**  
FY 2012: 0.061  
FY 2013: 0.000  
FY 2014 Base: 0.000  
FY 2014 OCO: 0.000  
FY 2014 Total: 0.000

**Description:** SBIR/STTR

**FY 2012 Accomplishments:**

**Accomplishments/Planned Programs Subtotals**

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## UNCLASSIFIED

### Exhibit R-2A, RDT&E Project Justification: PB Amended 2014 Army

#### Appropriation/Budget Activity
- **APPROPRIATION/BUDGET ACTIVITY**: 2040: Research, Development, Test & Evaluation, Army
- **BA 5: System Development & Demonstration (SDD)**

#### R-1 Item Nomenclature
- **R-1 ITEM NOMENCLATURE**: PE 0604622A: Family of Heavy Tactical Vehicles

#### Project
- **PROJECT**: E50: TRAILER DEVELOPMENT

### C. Other Program Funding Summary ($ in Millions)

|-----------|---------|---------|--------------|-------------|---------------|---------|---------|---------|--------------------------|------------|

**Remarks**

**D. Acquisition Strategy**
- Research, development, test, and evaluation efforts to support design, development and build of system trailer improvements.

**E. Performance Metrics**
- Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

**F. Major Performers**
- N/A
### Product Development ($ in Millions)

<table>
<thead>
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<th>Cost Category Item</th>
<th>Contract Method &amp; Type</th>
<th>Performing Activity &amp; Location</th>
<th>All Prior Years</th>
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<th>Award Date</th>
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### Project Cost Totals

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<th>FY 2014 Base</th>
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<tr>
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**Remarks**
### Exhibit R-4, RDT&E Schedule Profile: PB Amended 2014 Army

**DATE:** May 2013

<table>
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<th>PROJECT</th>
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<tr>
<td>2040: Research, Development, Test &amp; Evaluation, Army</td>
<td>PE 0604622A: Family of Heavy Tactical Vehicles</td>
<td>E50: TRAILER DEVELOPMENT</td>
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<td>BA 5: System Development &amp; Demonstration (SDD)</td>
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#### Project E50: TRAILER DEVELOPMENT

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- **Tire Improvement**
- **Next Generation Heavy Trailer Study**

---

PE 0604622A: Family of Heavy Tactical Vehicles

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R-1 Line #87
### Schedule Details

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<td>Next Generation Heavy Trailer Study</td>
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<td>2014</td>
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A. Mission Description and Budget Item Justification

This program element supports periodic, evolutionary upgrade of survivability and crew protection for Heavy Tactical Vehicles (HTV) as described in the Long Term Protection Strategy. The upgrades will leverage from Army Technology Objective's (ATO) survivability and Army Research Laboratory's (ARL) research and development activities to develop and evaluate kits to adapt and anticipate changing threat environments, protection gaps, or improve the operating performance, efficiency, and reliability of HTV systems with protection kits installed by application of weight reduction technology.

B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

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<td>Description: Design and build prototype kits for the Heavy Tactical Vehicle systems.</td>
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<td>FY 2012 Accomplishments:</td>
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<tr>
<td>Design and build prototype kits that represent production alternatives in terms of form, fit, and function sufficient to validate the required protection levels and kit interface to the vehicle platform.</td>
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<td>FY 2014 Base Plans:</td>
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<tr>
<td>Design and build prototype kits that represent production alternatives in terms of form, fit, and function sufficient to validate the required protection levels and kit interface to the vehicle platform.</td>
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<tr>
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<tr>
<td>Description: Armor Analysis of Alternatives</td>
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<tr>
<td>Perform engineering analysis and present design concepts for an armor solution.</td>
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<tr>
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<td>Description:</td>
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### B. Accomplishments/Planned Programs ($ in Millions, Article Quantities in Each)

**Description:** Vulnerability Modeling and Simulation

**FY 2012 Accomplishments:**
Vulnerability analysis will provide the AEC evaluator with potential vulnerabilities in armor design. Will support a safety confirmation and materiel release.

**FY 2014 Base Plans:**
Vulnerability Model & Simulation/ Army Materiel Systems Analysis Activity (AMSAA) Model & Simulation

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**Description:** Modeling and Simulation to predict survivability performance of the armor design.

**FY 2012 Accomplishments:**
Modeling and Simulation to predict survivability performance of the armor design.

**FY 2014 Base Plans:**
Modeling and Simulation to predict survivability performance of the armor design.

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**Description:** Funding is provided for the following effort.

**FY 2013 Plans:**
Continuation of test and evaluation of Tactical Wheel Vehicle protection kits. It consists of ballistic evaluations, automotive performance, and durability mileage sufficient to assess kit performance against established vehicle and ballistic requirements. Testing will determine capabilities and limitations of the protection kit integration onto the vehicle platform.

**FY 2014 Base Plans:**
Continuation of test and evaluation of Tactical Wheel Vehicle protection kits.

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**Description:** Funding is provided for program management heavy tactical office support.
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Accomplishments/Planned Programs Subtotals: 1.854 3.027 2.049 0.000 2.049

### C. Other Program Funding Summary ($ in Millions)

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**Remarks**

**D. Acquisition Strategy**

FY12 funds were executed via Military Interdepartmental Purchase Request (MIPR) to Army Research Laboratory (ARL). Armor kit design contract to be determined.
**Performance Metrics**

FY13 funds are expected to be executed via Military Interdepartmental Purchase Requests (MIPRs) to US Army Tank-Automotive Research, Development and Engineering Center (TARDEC), and government test centers, such as, Army Evaluation Center (AEC), Operational Test Center (OTC), and Army Test Eval Center (ATEC). Live Fire testing, Automotive, Operational and Shaker testing are planned.

FY14 funds are expected to be executed via Military Interdepartmental Purchase Requests (MIPRs) to US Army Tank-Automotive Research, Development and Engineering Center (TARDEC) and government test centers, such as, Army Evaluation Center (AEC), Operational Test Center (OTC), and Army Test Eval Center (ATEC).

**E. Performance Metrics**

Performance metrics used in the preparation of this justification material may be found in the FY 2010 Army Performance Budget Justification Book, dated May 2010.

**F. Major Performers**

N/A
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Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Award Date | Cost | Article 24 of 27 R-1 Line #87
## Test and Evaluation ($ in Millions)

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### Remarks
### Exhibit R-4, RDT&E Schedule Profile: PB Amended 2014 Army

**DATE:** May 2013

#### APPROPRIATION/BUDGET ACTIVITY

- **2040:** Research, Development, Test & Evaluation, Army
- **BA 5:** System Development & Demonstration (SDD)

#### R-1 ITEM NOMENCLATURE

- **PE 0604622A:** Family of Heavy Tactical Vehicles
- **VR5:** TWV Protection Kits

#### PROJECT

- **R-1 ITEM NOMENCLATURE**
- **RDT&E Schedule Profile**

#### FY 2012 - FY 2018 Schedule Profile

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**Unclassified**

**PE 0604622A:** Family of Heavy Tactical Vehicles

**Army**

**UNCLASSIFIED**

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R-1 Line #87
Schedule Details

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