PGK is a low cost, fuze-sized module that is intended to replace a “NATO standard” fuze on existing stockpiled artillery ammunition. PGK corrects the ballistic trajectory of spin stabilized ammunition resulting in a small terminal miss distance and thus improves projectile accuracy. PGK provides “First Round Effects.” PGK technology can be applied to literally millions of existing 155mm and 105mm projectiles.
Customer Needs
- Increased effectiveness (kills targets quicker)
- Increased stowed kills per platform
- Reduced collateral damage
- Reduced logistics burden
- Closer support of friendly troops

PGK Increment 1 Provides CEP Accuracy of < 50 Meters
Circular Error Probable (CEP) - the radius of a circle within which 50% of the projectiles fired will impact.
Operational Overview

1. Ballistic Solution
   - Initialize Fuze

2. Acquire GPS
   - Predict Miss
   - Deploy Controls
   - Steer to Target

3. Near-Precision Impact @ Target

4. Ballistic Dispersion

GPS Satellites

M109A6
NLOS-C
M777
EPI AFS
Guided vs. Unguided
Collateral Damage Reduction

Typical City Block Depiction

PGK Accuracy (O)
30m CEP

PGK Accuracy (T)
50m CEP

183m CEP

462 Meters
MS A approved on 20 December 2005

Acquisition Strategy/Acquisition Plan approved by MDA

- Awarded 2 TD contracts on 30 June 06
  - Conduct TD demonstration April 2007
  - Expect to Award option for Increment 1 SDD in May 2007
    - (18 months)
  - Contains options for Increment 1 Production (3 years)

- Future development contracts for Increment 2 & 3 will be competitively awarded

- SDD contract award on schedule for May 2007
<table>
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<th>XM1156 PGK Performance Spec Summary</th>
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<tr>
<td><strong>Accuracy w/ ½ Hr MET</strong></td>
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<tr>
<td>50m CEP</td>
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<tr>
<td><strong>Reliability</strong></td>
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<td>92%(T), 97%(O)</td>
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<tr>
<td><strong>Platform/ Max Charge</strong></td>
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<tr>
<td><strong>Compatibility</strong></td>
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<td><strong>Operating Temp (F)</strong></td>
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Increment 1
- <50m CEP,
- 155mm HE only
- If Phase 1 of TD is successful, IOC in FY10

Increment 2
- <30m CEP,
- All 155mm projectiles

Increment 3
- <30m(T) to 10m(O) CEP
- All 105mm projectiles
PGK successfully completed Milestone A on 20 December 2005

Planned approach is an incremental development to address Army near term requirements
- Increment 1: 50m CEP for 155mm HE
- Increment 2: 30M CEP for all 155mm projectiles
- Increment 3: 30m CEP Threshold, 10m CEP Objective for all 155mm and 105mm projectiles

TD contracts awarded to ATK and BAE 30 June 2006
- Conduct TD Demonstration Test in April 2007
- Conduct 18 month Systems Development and Demonstration (SDD) option
- Conduct three 12 month Production options

PGK program is on track
- TD Demonstration Test scheduled for late April 2007
- SDD contract award on schedule for May 2007