XM1022 Long-Range Sniper Ammunition

Executive Summary
- The Army completed LFT&E of the XM1022 Long-Range Sniper Ammunition in accordance with a DOT&E-approved test plan.
- The XM1022 demonstrated significant wounding potential and the ability to perforate personnel body armor at desired ranges, including ceramics.

System
- The Army initiated the XM1022 program to develop .50 caliber sniper ammunition with increased accuracy over the currently fielded Mk 211 multi-purpose armor piercing round.
- Because the XM1022 is not a dud-producing round and is less expensive than currently fielded .50 caliber ammunition, it will also serve as training ammunition.
- The XM1022 cartridge consists of a 650-grain projectile loaded into a standard M33 .50 caliber cartridge case.

Mission
- Snipers will employ XM1022 Long-Range Sniper Ammunition at extended ranges to destroy enemy personnel.

- In the event other ammunition types (i.e., armor-piercing) are not available, snipers will employ the XM1022 against lightly armored vehicles.

Activity
- DOT&E approved the LFT&E Strategy in 4QFY05, and developmental testing supporting the LFT&E began thereafter. However, during testing, the projectile exhibited in-bore breakup. The materiel developer made changes to the projectile and completed contractor testing in 2006.
- Developmental testing in support of LFT&E began again in FY07. During FY07, the Army Research Laboratory completed ballistic gelatin testing to assess lethality, completed testing against rolled homogeneous armor to assess anti-materiel capability, and completed testing against threat personnel body armor recovered in Iraq.
- During FY07, the Aberdeen Test Center, Maryland, completed testing against personnel body armor, conducting shots against the armor at extended ranges.
- Although the Army completed LFT&E for the XM1022, developmental testing continues. The Army is expected to make a procurement and fielding decision on the XM1022 in late FY08.

Assessment
- Ballistic gelatin testing demonstrated that the XM1022 has significant wounding potential at the required range.
- XM1022 demonstrated the ability to perforate personnel body armor.
- XM1022 demonstrated anti-materiel capability beyond its requirement.

Recommendations
- Status of Previous Recommendations. This is the first Annual Report for this program. There are no previous recommendations.
- FY07 Recommendations. None.