Standardized UXO Technology Demonstration Sites

Objective:
To provide the munitions management community with standardized test sites, protocols, and objective performance scoring/ comparisons in UXO detection and discrimination stages and target repository for UXO technology testing/ performance evaluation.

Site Layout:
Sites are located at both Aberdeen Proving Ground (APG), Maryland, and Yuma Proving Ground (YPG), Arizona.

- Calibration Lanes (APG & YPG)
- Blind Grid (APG & YPG)
- Open Field (APG & YPG)
- Woods (APG) / Desert (YPG)
- Moguls (APG) / Holes (YPG)
- Challenge Areas (APG & YPG)

Application Process:
- Sixty days - submit application before requested demonstration
- Thirty days - submit demonstration plan, including:
  - Field operations
  - Equipment description
  - QA/QC plan
- Testing:
  - Ten days - conduct testing

Performance Scoring
Objective:
Evaluate the detection and discrimination capabilities of a given technology under various field and soil conditions. Inert munitions and clutter items are positioned in various orientations and depths below the ground surface.

The evaluation objectives are:
- To determine detection and discrimination effectiveness under various realistic scenarios.
- To determine cost, time, and manpower requirements to operate the technology.
- To determine the demonstrator’s ability to analyze survey data in a timely manner and provide prioritized dig lists with associated confidence levels.
- To provide independent site management to enable the collection of high quality ground-truth, geo-referenced data for post-demonstration analysis.

Standardized Target Repository
Objective:
To provide the munitions community with standardized targets for UXO technology testing and performance evaluation.

Inventory:
- Variety of ordnance size and types:
  - 20mm to 155mm
  - Mortars, projectiles, rockets, and submunitions
  - Nonstandard targets (e.g., ordnance, tail fins, fuses, etc.)
- Other targets include range scrap

Repository Access:
- Request items through application:
  - www.usalatestrepository.org
- Allow lead time of four to six weeks

Data:
- Borrowers required to provide raw data collected from items
- Data sharing based on needs